

1. **Lauhitya is popularly referred as**
 (a) A Kosala King
 (b) An Historian
 (c) River
 (d) A Jain Monk
2. **Growth and spread of Buddhism was facilitated by**
 1. use of Pali 2. organization of sanghas
 3. liberal and democratic ideas
 (a) 1, 2 & 3
 (b) Only 3
 (c) Only 2
 (d) None of these
3. **Which international space agency is working with ISRO to develop synthetic aperture radar satellite?**
 (a) ROSCOSMOS
 (b) NASA
 (c) ESA
 (d) RSA
4. **India's first Mixed World Heritage Site on UNESCO World Heritage List**
 (a) Khangchendzonga National Park
 (b) Kanchenjunga National Park
 (c) Anna National Park
 (d) Kaziranga National Park
5. **Provisions of which of the following matters qualify a Bill to be deemed to be a Money Bill ?**
 1. The receipt of money on account of the public account of India.
 2. The custody of the Contingency Fund of India.
 3. Alteration of any tax
 Select the correct answer using the code given below-
 (a) 1 and 2 only
 (b) 2 and 3 only
 (c) 1 and 3 only
 (d) 1, 2 and 3
6. **Which of the following is/are not the Vindhyan Rivers?.**
 1. Ken
 2. Betwa
 3. Chambhal
 (a) 1 and 3 only
 (b) 1, 2 and 3
 (c) 3 only
 (d) None of these.
7. **Prayaga Prashasti was composed by**
 (a) Vishnu Gupta
 (b) Harsha
 (c) Samudragupta
 (d) Harisena
8. **1. They worshipped Pigeon, Snakes and Water. 2. They made their implements with copper. 3. They produced Cotton for the first time in the world. Which of the above is/are true w.r.t. Indus people?.**
 (a) 1, 2 and 3
 (b) 1 and 2
 (c) 1 and 3
 (d) 2 and 3
9. **The animals that are present around the Pasupati on a seal of Harappan Culture are**
 1. Buffalo 2. Rhinoceros
 3. Elephant 4. Deer
 (a) 1, 2 and 4
 (b) 1, 3 and 4
 (c) 1, 2, 3 and 4
 (d) 2 and 3
10. **Mowgli land is**
 1. in Nicobar. 2. known for Exotic Birds.
 3. was a Dutch possession since 1954.
 (a) Only 1 & 2
 (b) Only 2 & 3
 (c) 1, 2 and 3
 (d) None of these is true.
11. **First state in India to have an open government data portal**
 (a) Sikkim
 (b) Arunachal Pradesh
 (c) Himachal Pradesh
 (d) Andhra Pradesh
12. **The best-known of the rulers who controlled the Silk Route were**
 (a) Pallavas
 (b) Mauryas
 (c) Kushanas
 (d) None of these

13. **“Arktika”** is
 (a) Nuclear Icebreaker
 (b) An Asteroid
 (c) A Cloned Cow
 (d) An App for Women security
14. **UNGA has reiterated commitment to enforcing the Political Declaration on HIV and AIDS and to rid the world of the epidemic by**
 (a) 2030
 (b) 2050
 (c) 2045
 (d) 2035
15. **Marxists acknowledge their intellectual debt to**
 (a) Hegel
 (b) Lewis Henry Morgan
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
16. **The third stage of the Indian Nuclear Power Programme is based on the**
 (a) Thorium-Uranium- 233 cycle
 (b) Plutonium -Uranium- 238 cycle
 (c) Thorium-Uranium- 235 cycle
 (d) Plutonium -Uranium- 233 cycle
17. **“Yasmin Sooka” in news is a**
 (a) ISIS person
 (b) Pakistani associated with theft of Nuclear Secrets from India
 (c) Bin Laden’s Son
 (d) None of these
18. **Anaconda 16, the biggest ever joint military exercise in Poland was organized by**
 (a) SCO
 (b) NATO
 (c) ASEAN+6
 (d) ISIS
19. **Which of the following is/are correctly matched?.**
 1. Kalhana - Rajatarangini
 2. Megasthenese - Indica
 3. Asiatic Society – William Wedderburn.
 4. Jaysawal – Hindu Polity
 (a) 1, 2 and 4
 (b) 1, and 2
 (c) 3 and 4
 (d) 1, 2, 3 and 4
20. **Which one of the following has been maintained by the Supreme Court in the year 1996 under Article 21 regarding an attempt to commit suicide?**
 1. It is a natural right of a citizen but not a Fundamental Right of a Citizen.
 2. It is punishable under the law
 3. The court has nothing to do with it.
 4. The court reserves the right of condonation.
 Select the correct answer using the code given below:
 (a) 1 and 3
 (b) 2 only
 (c) 3 only
 (d) 1, 2 and 4
21. **1. Cold desert is located in the lap of the Ladakh in Himalayas.**
2. It is a biosphere reserve.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) Both 1 and 2 are true
 (d) Neither 1 nor 2 is true
22. **Identify the incorrect pair.**
 (a) Harshacharita - Kalidasa
 (b) Vakpati - Gaudavaho
 (c) Bilhana - Vikramankadevacharita
 (d) Arrian - Invasion of India by Alexander.
23. **Which of these is/are the function(s) of Capital Market?.**
 (a) Provide insurance against market risk through derivative trading.
 (b) Provide risk capital in the form of equity or quasi-equity to entrepreneurs.
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
24. **Wheat Blast disease is caused by**
 (a) Fungus
 (b) Bacteria
 (c) Virus
 (d) Prion
25. **Where is “Uralkali”?.**
 (a) Russia
 (b) Kazakhstan
 (c) Turkmenistan
 (d) Uzbekistan

26. **Which of the following is/are TRUE w.r.t Cyclone Warning Dissemination System, of IMD?.**
 (a) "Cyclone Alert" is issued 48 hours in advance of the expected commencement of adverse weather over the coastal areas.
 (b) "Cyclone Warning" is issued 24 hours in advance.
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
27. **"bhikkhus" mean**
 (a) Saints
 (b) Beggars
 (c) Preachers
 (d) Women Saints
28. **Consider the following: 1. The potential ecological niche of temperate conifers falls within regions of >250mm in annual precipitation that experience subfreezing conditions, down to, but not below -45 °C, which is the limit for supercooling of water. 2. The leaves of Coniferous forests are having sunken stomata. Which of the statements is/are correct?**
 (a) Only 2 is correct
 (b) Only 1 is correct
 (c) 1 and 2 are correct
 (d) None is correct
29. **The first definite mention of Bharata as a region is to be found in**
 (a) Adarsavali
 (b) Patanjali
 (c) Panini
 (d) None of these
30. **Which of the following is/are true?.**
 (a) Magadha was the most powerful mahajanapada.
 (b) Rajagaha was the capital of Magadha.
 (c) Both (a) and (b) are correct.
 (d) Both (a) and (b) are incorrect.
31. **Assam Rifles is under the administrative control of**
 (a) Union Home Ministry, but manned by Army officers.
 (b) Union Defence Ministry and manned by Army officers.
 (c) Union Home Ministry, but manned by Indian Police Service officers.
 (d) Union Home Ministry, and manned by Border Security Force officers.
32. **UNESCO heritage site(s) in Bihar is/are**
 (a) Mahabodhi temple in Bodh Gaya
 (b) Ruins of Nalanda Mahavihara
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
33. **The National Mineral Exploration Policy has been given Cabinet approval for the auction of** (a) 150 prospective mineral blocks
 (b) 200 prospective mineral blocks
 (c) 50 prospective mineral blocks
 (d) 100 prospective mineral blocks
34. **Globally India is/has**
 1. 3rd largest coal producer
 2. 4th largest Iron-ore producer
 3. 5th largest Bauxite reserves
 (a) Only 1 & 2
 (b) Only 2 & 3
 (c) 1, 2 and 3
 (d) Only 1
35. **Which among the following statements is / are correct w.r.t. Coking coal?**
 1. Coking coal is mainly used in power production in India.
 2. Coking coal commands a price premium over steam coal.
 3. Coking coal has more ash content in comparison to the steam coal.
Which among the above statements is / are correct?.
 (a) Only 1 & 2
 (b) Only 2
 (c) Only 1 & 3
 (d) 1, 2 & 3
36. **Which of the following is/are true?.**
 (a) Arikamedu was a coastal settlement.
 (b) Roman lamps, glassware and gems have also been found at Arikamedu.
 (c) Both (a) and (b) are correct.
 (d) Both (a) and (b) are incorrect.

37. **Global Logistics Performance Index is given by**
 (a) WTO
 (b) WB
 (c) WEF
 (d) IMF
38. **These are called the "constant gases" in atmosphere**
 (a) Methane, ozone, Nitrogen
 (b) Nitrogen, oxygen and water vapor
 (c) Methane, ozone, water vapor
 (d) Nitrogen, oxygen and argon
39. **Match List I with List II**
- | List I | List II |
|----------------|----------------------|
| A. Aryabhata | 1. Theory of zero |
| B. Nagarjuna | 2. Chemistry |
| C. Brahmagupta | 3. Theory of Gravity |
| D. Vagbhata | 4. Medicine |
| | 5. Inventor of Chess |
- (a) 1 - 5 - 2 - 4
 (b) 1 - 5 - 2 - 3
 (c) 1 - 2 - 3 - 4
 (d) 1 - 5 - 3 - 4
40. **Who composed Buddhacharita?.**
 (a) Nagasena
 (b) Ashoka
 (c) Kanishka
 (d) Ashvaghosha
41. **Toxic Chemicals in Mobile phones include**
1. Bromine 2. Mercury
2. Polycarbonates 4. Pthalates
 (a) 1, 3 and 4 only
 (b) 1, 2 and 4 only
 (c) 2 and 3 only
 (d) 1, 2, 3 and 4
42. **1. The main source of atmospheric free oxygen is photosynthesis.**
2. The largest reservoir of Earth's oxygen is Ocean in the form of oxides.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) Both 1 and 2 are true
 (d) Neither 1 nor 2 is true
43. **India's first internationally-listed certified green bond was launched by**
 (a) ICICI Bank
 (b) Axis Bank
 (c) HDFC Bank
 (d) Canara Bank
44. **First ruler who tried to take his message to the people through inscriptions**
 (a) Ashoka
 (b) Chandragupta Maurya
 (c) Kanishka
 (d) None of these
45. **The earliest evidence for the domesticated variety of rice**
 (a) Koldihwa
 (b) Burzahom
 (c) Chirand
 (d) Chopani Mando
46. **Nitrous oxide (N₂O) a greenhouse gas is produced by**
1. Fertilizer use 2. Fossil fuel combustion
3. Enteric fermentation
4. Forage legumes on grazed lands
 (a) 1 & 2
 (b) 1, 2 & 3
 (c) 1, 2 & 4
 (d) 1, 3 & 4
47. **SAARC cultural capital for 2016-17 is in**
 (a) Nepal
 (b) India
 (c) Bangladesh
 (d) Srilanka
48. **WHO declared which country/countries as maternal and neonatal tetanus free ?.**
 (a) India
 (b) Srilanka
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
49. **Which of the following mammal is the first recorded extinction anywhere in the world due to climate change caused by humans?.**
 (a) Bramble Cay melomys
 (b) Marsupial
 (c) Eel
 (d) Platypus

50. **AICOPTAX project primarily aims to 1. Widen the tax base. 2. Increase the service tax net.**
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
51. **Which of the following has been termed by the Historians as the "Period of Feudalism" (i.e.) "Dark Age" during which everything degenerated?.**
 (a) From the Gupta's to the conquest of Muslims.
 (b) From Palas to Pallavas.
 (c) Pandiyas of South India.
 (d) Ahom's of Assam.
52. **Keystone species are those species**
 (a) whose absence would cause major disruption in an ecosystem.
 (b) which has largest number individuals in an ecosystem.
 (c) which is at the top of the food chain of the ecosystem.
 (d) which has ability to provide food to all the other species
53. **Scientists unveiled improved method of transferring DNA between human egg cells which can help to counter genetic defects through a method called pronuclear transfer. This is called**
 (a) SCNT cloning
 (b) Protein IVF
 (c) Three Person IVF
 (d) GT Cloning
54. **Which of the following is/are true?.**
1. The Buddha belonged to Sakya gana.
2. The Buddha taught in the language of Sanskrit.
 (a) 1 only
 (b) 2 only
 (c) 1 and 2
 (d) Neither 1 nor 2
55. **Copper was first used during**
 (a) Paleolithic age
 (b) Neolithic age
 (c) Chalcolithic age
 (d) Megalithic age
56. **India's first ever National Civil Aviation policy allows open skies for 1. EU 2. SAARC 3. USA**
 (a) Only 2 is correct
 (b) 1 and 2 are correct
 (c) Only 1 & 3 are correct
 (d) Only 1 is correct
57. **What is/are true about "Pandavani"?**
 (a) It is a form of folk singing.
 (b) It is popular in Chhattisgarh.
 (c) Both (a) & (b) are correct.
 (d) Neither (a) nor (b) is correct
58. **The Harappans reared**
1. Cattle 2. Sheep 3. Goat 4. Buffalo
 (a) 1, 3 and 4 only
 (b) 1, 2 and 4 only
 (c) 2 and 3 only
 (d) 1, 2, 3 and 4
59. **Who found a way of calculating the circumference of a circle, which is nearly as accurate as the formula we use today?.**
 (a) Varahamihira
 (b) Aryabhatta
 (c) Brahmagupta
 (d) Vishnugupta
60. **The Ramosi uprisings were the outcome of**
 (a) Policy of annexation
 (b) Deposition of popular rulers
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
61. **Identify the correct sister city combination.**
 (a) Lucknow - Jinan
 (b) Chennai - Jinan
 (c) Pune - Jinan
 (d) Nagpur - Jinan
62. **The doctrine of the basic structure of the constitution' as a principle of judicial review**
 (a) is strictly in accord with the principle of procedure established by law
 (b) is consistent with the principle of the due process of law
 (c) accepts the theory that the legislature is the supreme law-making authority
 (d) assumes the power of judging the wisdom of the sovereign legislature

63. Which of the following is/are the Chalcolithic Culture?.
1. Ahar culture
 2. Jorwe culture
 3. Prabhas culture
 4. Rangpur culture
- (a) 1, 3 and 4 only
(b) 1, 2 and 4 only
(c) 2 and 3 only
(d) 1, 2, 3 and 4
64. Rudradaman who rebuilt Sudarshana lake was a best-known
- (a) Saka ruler
(b) Pala ruler
(c) Shunga Ruler
(d) Knava Ruler
65. Human Capital Report is released by
- (a) UNICEF
(b) WB
(c) WEF
(d) UNDP
66. The correct sequence of the eastward flowing rivers of the peninsular India from north to south is
- (a) Subarnarekha, Mahanadi, Godavari, Krishna, Pennar, Cauvery and Vagai
(b) Subarnarekha, Mahanadi, Krishna, Godavari, Cauvery, Vagai and Pennar
(c) Mahanadi, Subarnarekha, Godavari, Krishna, Cauvery, Pennar and Vagai
(d) Mahanadi, Subarnarekha, Krishna, Godavari, Cauvery, Vagai and Pennar
67. Which of the following criteria was/were formulated by the Kaka Kalekar commission in 1953 for identifying social and educationally backward classes?
- (1). Low social position in the traditional caste hierarchy of Hindu society
 - (2). Lack of general educational advancement
 - (3) Lack of representation in government services.
- Select the correct answer from the code given below:
- (a) 1 only
(b) 1 and 3 only
(c) 2 and 3 only
(d) 1, 2 and 3
68. Which of the following is/are correctly matched?.
1. Panini - Ashtadhyayi
 2. Nirukta - Vedanga
 3. Mudrarakshasha – Vishakhadatta
 4. Kalidasa - Malavikagnimitram
- (a) 1, 3 and 4
(b) 1, and 2
(c) 1 and 3
(d) 1, 2, 3 and 4
69. First region in the country to give transgender people social welfare benefits
- (a) Odisha
(b) Tamilnadu
(c) Andhra Pradesh
(d) Kerala
70. Which of the following is/are the tributaries of the Sindhu?.
1. Vipasa
 2. Parusini
 3. Askini
 4. Vitesta
- (a) 1, 3 and 4 only
(b) 1, 2 and 4 only
(c) 2 and 3 only
(d) 1, 2, 3 and 4
71. Helium is used in
- (1) Party balloons (2) MRI Scans
(3) Nuclear energy (4) Welding
- (a) Only 1 & 2
(b) Only 1 & 3
(c) 1,2,3 & 4
(d) 1, 2 & 4
72. BLC component of PMAY (Urban) means
- (a) Below Poverty Line Coverage
(b) Beneficiary Led Construction
(c) Best Low Cost
(d) Better Least Cost
73. Chinese term Tien-Chu or Chuantu refer to
- (a) Harsha
(b) Ganga
(c) Kalinga
(d) None of these

74. Which of the following is/are true about the ideas of Jainism?
 (a) The entire world is animated.
 (b) Principle of ahimsa.
 (c) Both (a) and (b) are correct.
 (d) Both (a) and (b) are incorrect.
75. Why the WTO is right in the solar panel dispute?
 (a) India has violated its “national treatment” obligation by unfavorably discriminating against imported solar cells and modules.
 (b) World Trade Organization (WTO) panel found that the domestic content requirement imposed under India’s national solar programme is inconsistent with its treaty obligations under the global trading regime.
 (c) Both (a) & (b)
 (d) Neither (a) Nor (b)
76. The first country to prohibit deforestation
 (a) Norway
 (b) Switzerland
 (c) Finland
 (d) Sweden
77. Which of the following is/are true about “Tamraparni”?
 1. It is a mango shaped island.
 2. It has a shape of betel leaf.
 (a) 1 only
 (b) 2 only
 (c) 1 and 2
 (d) Neither 1 nor 2
78. Vessantara Jataka depicts about a
 1. love affair between a brahmin girl and a sutra boy.
 2. various phases of Buddhism and its decline in India.
 3. a generous prince who gave away everything to a Brahmana, and went to live in the forest with his wife and children.
 (a) 1 & 3
 (b) Only 3
 (c) Only 2
 (d) None of these
79. Non-alignment as India's foreign policy meant
 (1) neutrality
 (2) equidistance between the three blocs during the cold war
 (3) independence and judging each issue on its relevance to our national interest
 (4) non - interference into the internal affairs of other States
 (a) Only 1 & 2
 (b) Only 2, 3 & 4
 (c) Only 3
 (d) 1, 2, 3 & 4
80. Where is Rajaji National Park?
 (a) Uttarkhand
 (b) Uttar Pradesh
 (c) Chennai
 (d) Kerala
81. Which of the following states/UTs has the largest number of Protected Areas in the country?
 (a) Himachal Pradesh
 (b) Uttar Pradesh
 (c) Andaman and Nicobar Islands
 (d) Kerala
82. How many new sports have been included in 2020 Olympics?
 (a) 5
 (b) 2
 (c) 3
 (d) 1
83. Which one of the following statements is/are not true?
 (a) The coronation of Parikshit marks the beginning of Kali Age.
 (b) Parikshit is the grandson of Arjun
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
84. PMSMA focus on
 (a) Healthcare facilities for pregnant women
 (b) Protection of pregnant ladies from infectious diseases
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
85. Buddha was deeply anguished when he saw
 1. an old man 2. a sick man 3. a corpse
 (a) 1 and 2 only
 (b) 1, 2 and 3 only
 (c) 1 only
 (d) 3 only

86. **The waves that cause the most damage during an earthquake is/are**
 1. S-waves
 2. Surface Waves
 (a) Only 1
 (b) Only 2
 (c) 1 & 2
 (d) Neither 1 nor 2
87. **Consider the following statements.**
 1. **The Rig Vedic religion was mainly ritualistic.**
 2. **Predominance of male gods over their female counter parts was an important feature of the Rig Vedic religion.**
 (a) Only 1 is correct
 (b) 1 and 2 are correct
 (c) Only 2 is correct
 (d) Neither 1 nor 2 is correct
88. **Which of the following is/are true?.**
 (a) Most Harappan sites are located in semi-arid Lands.
 (b) Shortughai in Afghanistan is a Harappan site.
 (c) Both (a) and (b) are correct.
 (d) Both (a) and (b) are incorrect.
89. **Currency Deposit Ratio (CDR) in India is likely to increase in times of**
 (a) Festive seasons
 (b) Subdued consumption
 (c) Expansionary monetary policy
 (d) None of the above
90. **Which of the following is/are false?.**
 1. **Vardhamana Mahavira was a kshatriya prince of the Lichchhavis, a group that was part of the Vajji sangha.**
 2. **The rules made for the Buddhist sangha were written down in a book called the Vinaya Pitaka.**
 (a) 1 only
 (b) 2 only
 (c) 1 and 2
 (d) Neither 1 nor 2
91. **First Harappan site to be discovered was**
 (a) Harappa
 (b) Mohenjadaro
 (c) Chanhudaro
 (d) Lothal
92. **India is free from the following disease as it has eradicated the virus associated with this strain.**
 (a) Polio
 (b) Plague
 (c) Both (a) and (b) are correct.
 (d) Both (a) and (b) are incorrect.
93. **1. Pulkeshin I - Aihole inscription.**
2. Gwalior inscription - Bhoja
 (a) Only 1 is true
 (b) Only 2 is true
 (c) Both 1 and 2 are true
 (d) Neither 1 nor 2 is true
94. **Kessler syndrome refers to**
 (a) A kind of fungal infection caused in wheat
 (b) Disease caused by Arsenic Pollution in Ground water
 (c) Self-sustaining cascading collision of space debris in LEO
 (d) Mutation caused by nuclear radiation especially in females
95. **'Hawa Badlo' movement aims to**
 (a) to fight air pollution
 (b) to protect trees
 (c) to fight wastage of water
 (d) to protect earth
96. **"India lauded for Red Line campaign" – Recent Headline news. Red Line campaign refers to**
 (a) Control of Naxalism
 (b) Elimination of Manual Scavenging
 (c) Curbing antibiotics misuse
 (d) Family Planning & Population Optimization
97. **Consider the following statements.**
 1. **The Junagarh Rock inscription of Rudradaman is considered as an early example of chaste Sanskrit, written in mid-2nd century A.D .**
 2. **The Allahabad Pillar inscription enumerates the achievements of Samudragupta.**
Which of the above statements is/are FALSE?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
98. **The World Happiness Report is published by**
 (a) UN General Assembly

- (b) United Nations Sustainable Development Solutions Network
 (c) Centre for Bhutan Studies and GNH Research
 (d) UNDP
99. Which one of the following compiles Global Energy Architecture Performance Index Report?
 (a) TERI
 (b) UNDP
 (c) WTO
 (d) WEF
100. Consider the following statements about National Air Quality Index.
 I. The index considers ten pollutants.
 II. The index has six categories of air quality.
 Which of the above statements is/are true?
 (a) Only I
 (b) Only II
 (c) Both I & II
 (d) Neither I nor II

POLITICAL SCIENCE
 ALL INDIA RANK HOLDER FACULTY

GENERAL STUDIES – PCM
 NO BOOKISH TEACHING

SOCIOLOGY
 SCORE 371 - MAXIMUM ACHIEVED

**WEEKLY CURRENT
 AFFAIRS &
 MAINS WRITING
 SKILLS PROGRAMME**

1. Which is the largest part of Earth's interior?
 - (a) Lower mantle
 - (b) Upper mantle
 - (c) Outer Core
 - (d) Inner Core
2. Mughal painting reached its climax under
 - (a) Jahangir
 - (b) Shahjahan
 - (c) Shershah
 - (d) None of these
3. Which of the following statements is/are true about Green road corridor project?
 1. 1% of every highway project will be spent for development of Green corridor.
 2. GRC project is under Ministry of Environment.
 - (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
4. Champions of the Earth award was established by
 - (a) UNEP
 - (b) UNDP
 - (c) WMO
 - (d) UNEO
5. National Mineral Exploration Policy is on the lines of UNCOVER project of
 - (a) Australia
 - (b) USA
 - (c) Iran
 - (d) China
6. Which of the following is/are true?
 1. Jupiter has lowest axial speed and hence smallest day.
 2. Earth has an escape velocity of 11.2 km/s.
 3. Mercury is the smallest planet in the solar system.
 - (a) 1 and 2 only
 - (b) 1 and 3 only
 - (c) 3 only
 - (d) 2 and 3 only
7. The Venetian traveler who travelled with his wife and reached Vijayanagar around 1420 was
 - (a) Athanasius Nikitin
 - (b) Nicolo de Conti
 - (c) Ibn Batuta
 - (d) Ferishta
8. Consider the following.
 1. Big temple of Thanjavur - Rajaraja
 2. Gangaikondacholapuram - RajendraWhich of the above statements is/are FALSE?
 - (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
9. Cloudy nights are warmer compared to clear cloudless nights, because clouds
 - (a) prevent cold waves from the sky from descending on earth
 - (b) reflect back the heat given off by earth.
 - (c) Produce heat and radiates it towards earth.
 - (d) Absorb heat from the atmosphere and send it towards earth.
10. Which one of the following crops is not cultivated under dryland farming?
 - (a) Ragi
 - (b) Groundnut
 - (c) Jowar
 - (d) Sugarcane
11. Annu Rani is
 - (a) Volley Ball Player
 - (b) Javeline thrower
 - (c) Chess Player
 - (d) Snooker
12. CFCs eat away ozone only if
 1. light is present
 2. air is cold enough
 - (a) Only 1
 - (b) Only 2
 - (c) 1 & 2
 - (d) Neither 1 nor 2
13. Who banned export of slaves from India?
 - (a) Firoz Tughlaq
 - (b) Muhammad Tughlaq
 - (c) Alauddin Khilji
 - (d) Sikandar Lodi
14. Five Hundred Meter Aperture Spherical Telescope is in
 - (a) Belarus
 - (b) China
 - (c) India
 - (d) USA

15. Peninsular rivers rarely form meanders. The following could be a reason.
1. hard rock surface of peninsular regions.
2. non-alluvial character of plateau
3. high erosional capacity of rivers
(a) 1 and 2 only
(b) 1 and 3 only
(c) 2 and 3 only
(d) 1, 2 and 3
16. "Indian Standard Meridian" passes through
1. UP 2. MP 3. Orissa 4. AP
(a) 1, 2 and 4
(b) 1, and 2
(c) 3 and 4
(d) 1, 2, 3 and 4
17. Networked Readiness Index 2016 released by
(a) WB
(b) WTO
(c) IMF
(d) WEF
18. "Policy of Ring Fence or Buffer state" is associated with
(a) Lord Cornwallis
(b) Warren Hastings
(c) Lord Auckland
(d) Lord Ellenborough
19. NGT issued notice on stone mining, in Balpakram. Where is Balpakram National Park?
(a) Mizoram
(b) Nagaland
(c) Arunachal Pradesh
(d) Meghalaya
20. PAT Scheme is for
(a) Energy Efficiency
(b) Ethical treatment of Animals
(c) Performance appraisal of Civil Servants
(d) Infrastructure development
21. Which of these is/are true?
1. The bulk of Brazil is well fit with Gulf of Guinea.
2. East coast of South America can be fitted with West coast of Africa.
3. Himalaya was formed due to folding in sediments of Tethys sea.
(a) 1 & 2
(b) 1, 2 & 3
(c) Only 2
(d) 2 & 3
22. Consider the following.
1. The maximum size of a stable white dwarf, approximately 1.64 times the mass of the Sun.
2. Stars with mass higher than the Chandrasekhar limit become black holes.
Which of the above statements is/are FALSE?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
23. The first country to develop a gender sensitive budget was
(a) Australia
(b) Malta
(c) Switzerland
(d) Trinidad & Tobago
24. The largest constituent of the Crust
(a) Silica
(b) Oxygen
(c) Aluminum
(d) Hydrogen
25. Which of the following statements is/are correct about "Zika virus"?
1. The virus spreads through Drosophila.
2. The virus has caused outbreaks in north-eastern India
3. Conjunctivitis is one of the most common symptoms of Zika virus disease. Select the correct option from codes given below:
(a) Only 3
(b) Only 1 & 2
(c) Only 2 & 3
(d) 1, 2 & 3
26. Which among the following is true?
(a) India abstained from LGBT vote for legal reasons at UN.
(b) China & Russia favored LGBT vote.
(c) Both (a) and (b) are correct.
(d) Both (a) and (b) are incorrect.
27. True about Seismic waves
(a) P - waves travel faster than S-waves and move with a forward-and-backward motion.
(b) P - waves pass through solids, liquids, and gases.
(c) Both (a) & (b)
(d) Neither (a) nor (b)

28. 'Solar Mamas' are
(a) Women solar engineers
(b) Men solar engineers
(c) Service providers of Solar Households
(d) Technocrats of ISA.
29. 1. Equator receives comparatively less insolation than the tropics.
2. In winter, the middle and higher latitudes receive less radiation than in summer.
3. In the same latitude the insolation is more over the continent than over the oceans.
Which of these is/are FALSE?
(a) 1 & 3
(b) Only 3
(c) Only 2
(d) None of these
30. Qualifications necessary to become a member of a committee of the sabha in the Chola Empire:-
1. They should be between 35 and 70 years of age.
2. They should have knowledge of the Vedas.
3. They should have their own homes.
4. They should be well-versed in administrative matters and honest.
(a) 1, 2 and 4
(b) 1, and 2
(c) 3 and 4
(d) 1, 2, 3 and 4
31. The gold coins of Muhammad Ghori usually bear
(a) Goddess Lakshmi on the obverse and his name in Nagari characters on the reverse.
(b) Kalima on one side and his name on the other in Arabic characters
(c) His name on the obverse and name of mint and year of minting on the reverse
(d) Zodiac signs on the obverse and his name in Persian characters on the reverse
32. The Jaina system of thought closely resembles
(a) Vedanta
(b) Vaisheshika
(c) Samkhya
(d) Yogacharya
33. The pioneer in preaching Nirguna Bhakti in medieval India was
(a) Namadeva
(b) Vallabhacharya
(c) Ramananda
(d) Sri Chaitanya
34. SEHAT initiative is related to
(a) Energy Efficiency
(b) Ethical treatment of Animals
(c) Performance appraisal of Civil Servants
(d) Health Sector
35. India's first mixed heritage site in UNESCO World Heritage List
(a) Khangchendzonga National Park
(b) Humayun's Tomb, Delhi
(c) Churches and Convents of Goa
(d) Keoladeo National Park
36. Eight missions under National action plan on Climate change does not include
(a) National Mission for "Green Corridor Transport"
(b) National Water Mission
(c) National Mission for Sustaining the Himalayan Ecosystem
(d) National Mission for Enhanced Energy Efficiency
37. Which of the following is/are true?
1) First ever Nano-cellulose Pilot Plant in India is established in Haryana.
2) Nano cellulose is derived from NC Lacquer.
(a) Only 1
(b) Only 2
(c) 1 & 2
(d) Neither 1 nor 2
38. Which of the following latitudes passes through India?
(a) Equator
(b) Tropic of Cancer
(c) Both (a) and (b) are correct.
(d) Both (a) and (b) are incorrect.
39. Match the following
- | List I (Clouds) | List II - (Effects) |
|-----------------|---------------------|
| A. Cumulus | 1. Storms |
| B. Cumulonimbus | 2. Fair weather |
| C. Altocumulus | 3. Changing weather |
| D. Altostratus | 4. Settled weather |
- Codes A B C D
(a) 1 3 4 2
(b) 2 1 4 3
(c) 2 4 1 3
(d) 1 2 3 4
40. Which one of the following layers of the atmosphere is responsible for the deflection of radio waves?
(a) Troposphere
(b) Stratosphere
(c) Mesosphere
(d) Ionosphere

41. Which of the following statements is/are incorrect about Mars Orbiter Mission?.
1. The Mars Orbiter Mission probe lifted-off using Geo Synchronous Satellite Launch Vehicle (GSLV).
 2. Deep Space Network (DSN) center in Bialalu is being used to track the ongoing Mars Orbiter Mission (MOM).
- (a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
42. "Bhabhatron" is a
- (a) Robot
(b) Nuclear Miniature Complex
(c) Cancer treatment machine
(d) Magnetic Fusion equipment
43. Identify the correct statement (s)
- (a) Cloudbursts happen only in the mountains and hilly areas and not in Plains.
(b) Cloudbursts happen when saturated clouds are unable to produce rain because of the upward movement of very warm current of air.
(c) Both (a) and (b) are correct.
(d) Both (a) and (b) are incorrect.
44. Which of these is/are causes of earthquakes?.
1. Accumulation of Water.
 2. Continuous changes taking place in the crystalline structure of the silicate minerals.
 3. Isostatic Adjustment
- (a) 2 & 3
(b) 1, 2 & 3
(c) Only 3
(d) 1 & 3
45. Samantas were
- (a) Feudal Chiefs
(b) Traders
(c) Money Exchangers
(d) Priests
46. The largest Mughal period bridge in India was built in Akbar's time at
- (a) Delhi (Barapula)
(b) Jaunpur
(c) Jajau
(d) Nurpur
47. Which type of soil is typical of the Deccan trap region spread over northwest Deccan plateau and is made up of lava flows?.
- (a) Regur Soil
(b) Laterite Soil
(c) Loamy Soil
(d) None of these
48. Waterlogged molecules taken from readings from NASA's Mars Reconnaissance Orbiter are
- (a) Coecervates
(b) Perchlorates
(c) Both (a) & (b)
(d) Neither (a) nor (b)
49. Consider the following.
1. Turkey is located between the Black Sea and the Mediterranean Sea.
 2. Ataturk Airport is in Turkey.
- Which of these is/are correct?
- (a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
50. Earth's lithosphere includes
- (a) Crust + Upper most mantle
(b) Crust + Lower most mantle
(c) Crust + Core
(d) Mantle + Core
51. The largest Gypsum producing state in India is
- (a) Rajasthan
(b) Jharkhand
(c) Bihar
(d) Chhattisgarh
52. Where do comets come from?
1. Oort Cloud
 2. Kuiper Belt
- (a) 1 and 2
(b) 1 only
(c) 2 only
(d) Neither 1 Nor 2
53. 'Mediterranean Sea Forests' are found in the areas
- (a) between 10° N to 10° S latitudes
(b) between 20° N to 30° N latitudes
(c) between 30° to 45° latitudes in the western parts of continents
(d) between 60° to 65° latitudes

54. Match the following

List I (Ocean current)

- A. Agulhas
B. Kuroshio
C. Benguela
D. Elnino

List II - (Ocean)

1. South Atlantic
2. Indian ocean
3. South Pacific
4. North Pacific

Codes	A	B	C	D
(a)	1	3	4	2
(b)	3	1	4	2
(c)	2	4	1	3
(d)	1	2	3	4

What is Lodi Khuladar ?

55. (a) A style of painting that flourished in the Sultanate.
(b) A style of vocal that flourished in the Sultanate.
(c) A style of painting that flourished in the Mughals.
(d) A style of vocals that flourished in the Mughals. at Kachuvava, about 57 miles away from Agra.

Match List I with List II

List I	List II
Hemachandra Suri	1. Ulta Basi
Jona Raja Kabir	2. Jain Scholar
	3. Rajatarangini

- (a) 3 - 2 - 1
(b) 2 - 3 - 1
(c) 1 - 2 - 3
(d) 3 - 1 - 2

57. The Earth without rotational movement would result into.

1. no sun-rise and sun-set.
2. no occurrence of day and night cycle.
3. only one season.

- (a) 1 & 2
(b) 1, 2 & 3
(c) Only 2
(d) Only 1

58. Which soil develops in areas with high temperature and heavy rainfall.?

- (a) Regur Soil
(b) Laterite Soil
(c) Loamy Soil
(d) None of these

59. Which of these is/are true about Aesthenosphere?.

1. It is the outermost part of the lower mantle.
2. It is 100 or more kilometers thick under oceans, and much less under continents.
3. Lithospheric plates slide on it.

- (a) 1 & 2
(b) 1, 2 & 3
(c) Only 2
(d) 2 & 3

60. Which among the following is true?

- (a) Shankar Acharya Committee recommended shifting of financial year.
(b) Raghuram Rajan has not favored shifting of financial year.
(c) Both (a) and (b) are correct.
(d) Both (a) and (b) are incorrect.

61. Sahara Desert lies between

- (a) 15° and 30°N latitudes
(b) 5° and 20°N latitudes
(c) 10° and 25°N latitudes
(d) 25° and 30°N latitudes

62. Two of the great Mughals wrote their own memories. They were 1. Babar 2. Humayun 3. Jahangir 4. Shahjahan

- (a) 1 and 4 only
(b) 2 and 4 only
(c) 1 and 3 only
(d) 2 and 3 only

63. How many states of India border Bangladesh?

- (a) 3
(b) 5
(c) 7
(d) 4

64. The Razmnāma is a Persian translation of the

- (a) Mahabharata
(b) Ramayana
(c) Lilavati
(d) Natyasatra

65. Test no. 2 Q.no.65 - Strategic Debt Restructuring is a new mechanism introduced by RBI to deal with the bad loans. Which of the following is/are correct?.

1. A consortium of lenders converts a part of their loan in an ailing company into equity with the consortium owning atleast 51% stake.
2. It will help banks and financial Institutions to

recover their NPA's easily.

3. Under this banks were given the option of even replacing the promoters of the project.

4. It is highly being criticized as scholars -opines that this scheme will increase the risk by postponing the NPA's.

- (a) 1, 2, 3 and 4
- (b) Only 1
- (c) 1, 3 and 4
- (d) 1, 2 and 3

66. Mohrovic discontinuity separates

- (a) Upper mantle and lower crust
- (b) Mantle and asthenosphere
- (c) Core and mantle
- (d) None of these

67. Which of the following is/are false?.

(1). Mountain ranges in the eastern part of India forming its boundaries with Myanmar are collectively called Purvanchal.

(2). The Aravalli range is the oldest fold mountains in India.

- (a) 1 only
- (b) 1 and 2
- (c) 2 only
- (d) Neither 1 nor 2

68. Consider the following statements about Coriolis force:

- 1. It is absent at the equator and increases towards the poles.
- 2. A deflection towards left is experienced on the southern hemisphere.

Which of these is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

69. The use of spinning wheel (Charkha) became common during the

- (a) 9th Century A.D.
- (b) 10th Century A.D.
- (c) 12th Century A.D.
- (d) 14th Century A.D.

70. Mekong Ganga region comprise

- 1. Cambodia
 - 2. Myanmar
 - 3. Laos
 - 4. Thailand
- (a) 1 and 2

- (b) 1, 2, 3 and 4

- (c) 1, 2 and 3

- (d) 1, 2 and 4

71. Duncan Passage is situated between:

- (a) Minicoy and Amindiv
- (b) Minicoy and Maldives
- (c) Little Andaman and Car Nicobar
- (d) South Andaman and Little Andaman

72. The water holding capacity is the highest in

- (a) Sandy soil
- (b) Clayey soil
- (c) Loamy soil
- (d) Mixture of sand and loam.

73. Which of the following are members of Arctic council?

- 1. Netherland 2. Finland
- 3. United Kingdom 4. Poland 5. Russia

- (a) 1, 2 & 4

- (b) 1, 2, 3 & 5

- (c) 2 & 5

- (d) 2, 3 & 5

74. Which among the following is true?

(a) The National Green Highway Mission initiated the 'Adopt a Green Highway' Program to engage corporates, Public Sector units, Government organizations and other institutions for developing green corridor along National Highways through plantation and allied activity on avenue, median and other available nearby land patches.

(b) It is on the lines of 'Adopt a Highway' in the United States.

(c) Both (a) and (b) are correct.

(d) Both (a) and (b) are incorrect.

75. Who built the town of Thanjavur and a temple for goddess Nishumbhasudini there?.

- (a) Raja Raja I
- (b) Vijayalaya
- (c) Rajendra I
- (d) Kulothunga

76. What would have happened to India if Himalayas didn't exist?.

(a) Monsoon rains would have taken place in winter months

(b) North Indian plain would have been much cooler in winter

(c) Both (a) & (b)

(d) Neither (a) nor (b)

77. High temperature and low pressure over the Indian Sub-Continent during the summer season draws air from the Indian Ocean leading to the

- in-blowing of the
(a) Southeast monsoon
(b) Southwest monsoon
(c) Trade winds
(d) Westerlies
78. **Mohammad Ghori was first defeated by**
(a) Prithviraja Chauhan
(b) Jayachandra
(c) Bhima II
(d) None of these
79. **Medium Range Surface to Air Missile (MRSAM), is developed jointly with**
(a) Israel
(b) Russia
(c) USA
(d) Japan
80. **Tolkappiyam is associated with the**
(a) 1st Sangam period
(b) 2nd Sangam period
(c) 3rd Sangam period
(d) 4th Sangam period
81. **The first example of the true arch and true dome is in**
(a) Alai Darwaza
(b) Qutb Minar
(c) Quwwat-ul-Islam Mosque
(d) Alai Minar
84. **The book 'Rehala' throws light on**
(a) Muhammad Bin Tughlaq's reign
(b) Ghazi Malik's reign
(c) Alauddin Khilji's reign
(d) None of these
85. **Which of the following has the narrowest continental shelf in the world?**
(a) East coast of Pacific ocean
(b) East coast of Atlantic ocean
(c) East coast of Indian ocean
(d) East coast of Arctic ocean
86. **Which of the following is the correct about the Sati system during Vijaynagar period?**
(a) Women performed Sati commonly
(b) Only poor women performed
(c) Only rich women performed
(d) All women performed sati system as their own desire

87. Crackingias.com 9884554654 Raja Sir's
SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<
CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...
POLITICAL SCIENCE
ALL INDIA RANK HOLDER FACULTY
&
Mandatory for GS (PCM)
ONLY BEST FACULTY in Chennai FOR POLITICAL SCIENCE - RAJA SIR @ Cracking IAS Academy
Produced AIR < 20 twice & Many more IAS, IPS, IFS.
402 Selections since 2005
Consider the following statements about Seismic waves:-
1. S-wave particles vibrate perpendicularly to the direction the wave travels.
2. P-wave particles vibrate parallelly to the direction the wave travels.
3. S-waves can not pass through liquid or gas and hence cease to exist at about 2900 km.
Which of these statements is/are correct?
(a) 1 and 2
(b) 2 and 3
(c) 1, 2, and 3
(d) Only 3
88. **Who is most famous for his golden "chain of justice"?**
(a) Jahangir
(b) Iltutmish
(c) Akbar
(d) Shahjahan
89. **Which of these is/ are true?**
(a) Qutabuddin started work on the Qutab Minar and Iltutmish completed it.
(b) Tughluqabad, was founded by Muhammad bin Tughluq.
(c) Firoz Shah Tughluq built the Alai Darwaza.
(d) 1 & 2 are true
90. **Port Blair – the capital of Andaman and Nicobar Islands, is located in which one of the following islands?**
(a) North Andaman
(b) Little Andaman
(c) Middle Andaman
(d) South Andaman
91. **The Kirkwood gaps are regions in**
(a) Comets

- (b) Asteroids
(c) Pluto
(d) Red Dwarfs
92. The criterion for Sangeet Natak Akademi for deciding whether a dance is classical or not is
(a) If it incorporates Natya Shastra techniques
(b) If recognized by Ministry of Culture
(c) If it's origin can be traced back to ancient India
(d) None of these
93. The parties involved in the "tripartite struggle" were
1. Gurjara-Pratiharas 2. Rashtrakutas
3. Palas 4. Chalukyas
(a) 1, 2 & 3
(b) 1, 2 & 4
(c) 2, 3 & 4
(d) 1, 3 & 4
94. Which of these is/are true?
(a) Tulsi Das was a contemporary of Akbar.
(b) Tulsidas authored Ramcharitmanas.
(c) Both (a) & (b)
(d) Neither (a) nor (b)
95. The ocean which was surrounded super Continent Pangaea was
(a) Pacific
(b) Atlantic
(c) Tethys
(d) Panthalasa
96. The bulk of heat energy transferred in the troposphere is done by
(a) Convection
(b) Radiation
(c) Conduction
(d) (b) and (c)
97. Which of the following national park will get affected by Ken - Betwa river linking project?
(a) Bandhavgarh National Park
(b) Pench National Park
(c) Satpura National Park
(d) Panna National Park
98. What are "Satellite cells"?
(a) Satellite cells are muscle stem cells required muscle growth and repair.
(b) Satellite cells are special units in International Space Station.
(c) Satellite cells are special action force of ISIS.
(d) Satellite cells are special units of Indian RAW in Pakistan.
99. The text of the document called Mahzar, by which Akbar assumed the role of supreme arbiter in the matters of religion is found in
(a) Nizamuddin's Tabaqat-I-Akbari
(b) Arif Quandahari's Tarikh-I-Alfi
(c) Abul Fazl's Akbarnama
(d) Badauni's Muntakahab-ut-Tawarikh
100. Which of the following statements about a uniform civil code is/are correct?
1. It is binding on the state that a uniform civil code must be made applicable to all.
2. The provision regarding a uniform civil code is contained in part III of the Constitution.
3. The provision regarding the uniform civil code is not applicable to the State of Jammu and Kashmir.
4. The Supreme Court of India has directed that a uniform civil code must be made applicable to all within ten years. Choose the correct answer from the codes given below:
(a) 3 only
(b) 3 and 4
(c) 1, 2 and 3
(d) 1, 2 and 4

1. 1. Upwelling elevates cold, nutrient-rich water to the euphotic zone, the upper layer of the ocean.
2. During an El Niño event, westward-blowing trade winds weaken along the Equator.
Which of the above statements is/are FALSE?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
2. 1. At the South Pole, the sun rises on September 21 and does not set until March 22, the following year.
2. The midnight sun occurs because the earth's axis tilts toward the sun in summer and away from the sun in winter.
3. Above the Arctic Circle, the sun never rises on the day of the winter solstice.
Which of these statements are correct?
(a) 1 and 2
(b) 1 and 3
(c) 2 and 3
(d) 1, 2 and 3
3. Which of the following planet is losing its largest moon and in the process of developing rings like Saturn and Jupiter?
(a) Venus
(b) Pluto
(c) Neptune
(d) Mars
4. Consider the following statements:
1. Deendayal Upadhyay conceived the political philosophy Integral Humanism.
2. Integral Humanism is the official philosophy of the Bharatiya Janata Party.
Which of these statements is/are correct?
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
5. Who persuaded Gandhi to come to Champaran to investigate the Tinkathia issue?
(a) Raj Kumar Shukla
(b) Rajendra Prasad
(c) Anugrah Narayan Sinha
(d) Brajkishore Prasad
6. Abel Prize is given in the field of
(a) Medicine
(b) Literature
(c) Mathematics
(d) Press
7. What is "Scramjet"?
(a) It is a hypersonic combustion engine that uses oxygen from the atmosphere for fuel.
(b) It is a supersonic combustion engine that uses oxygen from the atmosphere for fuel.
(c) It is a supersonic combustion engine that uses helium as fuel.
(d) It is a hypersonic combustion engine that uses helium as fuel.
8. 1. The moderates urged the government to provide cheap credit to the peasants through agricultural banks and to make available large scale irrigation facilities.
2. The moderates were critical of the high government expenditure on the army that was employed in Asia & Africa.
Which of the above statements is/are FALSE?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
9. Consider the following statements.
1. Jawaharlal Nehru was dissatisfied with the declaration of Dominion Status on the lines of the self-governing dominions as the basis of the future constitution of India.
2. Subhas Bose and Satyamurthi pressed for the acceptance of 'Purna Swaraj' or complete independence as the goal of the Congress.
3. Gandhiji was satisfied with the declaration of Dominion Status on the lines of the self-governing dominions as the basis of the future constitution of India.
Which of these statements are correct?
(a) 1 and 2
(b) 1 and 3
(c) 2 and 3
(d) 1, 2 and 3
10. Pink Police Patrol has been launched to ensure
(a) Women's Safety
(b) Children Safety
(c) Both (a) & (b)
(d) Neither (a) Nor (b)
11. Consider the following statements:
(1) The Regional Comprehensive Economic Partnership (RCEP) is a trading bloc comprising 16 Asia-Pacific countries.
(2) It is strategically important for India's Act East Policy.
(3) India has joined Regional Comprehensive Economic Partnership.
Which of the statements given above is/are correct?
(a) 1 only
(b) 2 only
(c) 1, 2 and 3
(d) 1 and 2 only
12. Who coined the term "Satyagraha"?
(a) Gopala Krishna Gokhale
(b) Bal Gangadhar Tilak
(c) Mahatma Gandhi
(d) K.K.Mitra

13. **10@10 initiatives is for**
(a) Women & Child Development
(b) Food Safety
(c) Forest Fires
(d) Digital India
14. **1. The horse latitudes are regions located at about 30 degrees north and south of the equator.
2. The horse latitudes are characterized by calm winds and little precipitation.
Which of these statements are correct?**
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
15. **Where is Mahachaitya Stupa, that has the privilege of being the largest stupa in India?.**
(a) Andhra Pradesh
(b) Bihar
(c) Orissa
(d) Madhya Pradesh
16. **What happened on 3 February 1928?**
(a) A snap resolution declaring complete independence as the goal of the Congress was passed.
(b) Simon Commission arrived.
(c) Lala Lajpat Rai was brutally lathi charged.
(d) Both (b) & (c) happened.
17. **RTS - S is a scientific name given to**
(a) Malaria Vaccine
(b) Typhoid Vaccine
(c) Ebola Vaccine
(d) Zika Vaccine
18. **Gandhi formed the Passive Resistance Association**
(a) As a protest against the internment of Mrs. Besant and her co-workers.
(b) As a protest against the Jalianwala Bagh tragedy.
(c) As a protest against the Rowlatt Act.
(d) To conduct the campaign of Civil Resistance in South Africa.
19. **The Senkaku Islands are disputed between**
(a) China and Japan
(b) Japan and Taiwan
(c) Both (a) & (b)
(d) Neither (a) nor (b)
20. **Identify the incorrect pair.**
(a) Citizen and Society - Pranab Mukherjee
(b) Surface to Air Missile - Barak-8
(c) Varun Bhati - High Jumper
(d) GSLV-F05 - INSAT -3DR
21. **Kaunayen is a breed of**
(a) Pig
(b) Cow
(c) Chicken
(d) Buffalo
22. **Who drafted a new constitution for Indian National Congress in 1920?.**
(a) Rajendra Prasad
(b) Bal Gangadhar Tilak
(c) Mahatma Gandhi
(d) K.K.Mitra
23. **"Gossamer rings" surround**
(a) Venus
(b) Jupiter
(c) Mars
(d) Earth
24. **Consider the following:**
**1. Methane makes up far less of the atmosphere than carbon dioxide.
2. Clearing of the rain forests greatly reduces the methane content of the atmosphere.
3. Water vapor is a good absorber of Earth's outgoing radiation. Which of the statements is/are correct?**
(a) Only 2 and 3 are correct
(b) Only 1 and 3 are correct
(c) Only 1 is correct
(d) All are correct
25. **Andaman Nicobar island is separated from Sumatra by**
(a) Great channel
(b) Palk bay
(c) Indira point
(d) None of these
26. **Convictional rainfall is a feature of**
(a) Tundra region
(b) Equatorial region
(c) Tropical region
(d) Temperate region
27. **Who prevented the attack on Arya Samaj temple in Shahjahanapur?.**
(a) Khudiram Bose
(b) Vasudev Balwant Phadke
(c) Ramprasad Bismil
(d) Ashfaq Ullah Khan
28. **Asia Pacific Trade Agreement or APTA is an initiative under**
(a) APEC
(b) NDB
(c) ADB
(d) UN ESCAP
29. **The Civil Disobedience Movement was called off on March 5, 1931, after**
(a) Death of Motilal Nehru
(b) Signing of Gandhi - Irwin pact
(c) Sapru Jayakar peace parleys
(d) Both (b) & (c)
30. **The Chairman of the 2nd Round Table Conference**
(a) Ramsay Macdonald
(b) Lord Irwin
(c) Winston Churchill

- (d) Lord Willington
31. Which country will perform the first gene editing trial on human beings in the world?
(a) USSR
(b) India
(c) Germany
(d) China
32. Which of the following is/are false?
(1). Mountain ranges in the eastern part of India forming its boundaries with Myanmar are collectively called Purvanchal.
(2). The Aravalli ranges are the oldest fold mountains in India.
(a) 1 only
(b) 1 and 2
(c) 2 only
(d) Neither 1 nor 2
33. Who shot dead Sir William Wyllie near Trafalgar Square in London for which he was hung to death?
(a) Madanlal Dhingra
(b) Lala Hardayal
(c) Sardar Singh Rana
(d) Yashpal
34. Khadar soils are preferred over Bhangar soils for crop cultivation because:
1. Khadar soil is composed of fine particles than that of Bhangar soil.
2. Bhangar soils lack in kankar nodules. The correct statement(s) is/are
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) None of the above
35. Crops produced during 'zaid' are
1. Water melon
2. Musk Melon
3. Cucumber
(a) 2 & 3
(b) 1, 2 & 3
(c) Only 3
(d) 1 & 3
36. "Eka Movement" was founded by
(a) Madari Pasi
(b) Mahatma Gandhi
(c) Basanti Debi
(d) None of these
37. Zardozi is popular at
(a) Lucknow
(b) Pune
(c) Patna
(d) Hyderabad
38. Tropic of Capricorn passes through
(a) Botswana
(b) Swaziland
(c) Zambia
(d) Zimbabwe
39. How many bills constituted Rowlatt Bills that later became Rowlatt Act?
(a) 1
(b) 2
(c) 3
(d) 4
40. Which of the following is/are true?
(1) Water vapor can provide a strong positive feedback to global warming.
(2) Clouds can provide considerable negative feedback to global warming. (a) Only (1)
(b) Only (2)
(c) Both (1) & (2)
(d) Neither (1) Nor (2)
41. What is Agenda 2063?
(a) Sustainable Development Initiative
(b) Carbon footprint Initiative
(c) African Development Initiative
(d) Latin American Development Initiative
42. Advanced Ultra Super Critical (AUSC) Technology is related to
(a) Thermal coal power plants
(b) Genetic Engineering
(c) Nuclear Fusion
(d) None of these
43. Which soil develops in areas with high temperature and heavy rainfall?
(a) Regur Soil
(b) Laterite Soil
(c) Loamy Soil
(d) None of these
44. Jet Stream is basically a strong
(a) Westerly wind
(b) Easterly wind
(c) Anti cyclone
(d) Temperate cyclone
45. MAA programme is to promote
(a) Women & Child Development
(b) Food Safety
(c) Forest Fires
(d) Digital India
46. Which of these announced the withdrawal of non-cooperation movement?
(a) Bardoli resolution
(b) Goa resolution
(c) Calcutta resolution
(c) Lucknow resolution
47. Which of the following does not affect climate?
(a) Longitude
(b) Ocean Current

- (c) Both (a) or (b)
(d) Neither (a) nor (b)
48. Which of the following forests are chiefly distributed on the western face of Western Ghats?
(a) Tropical moist evergreen forests
(b) Tropical moist semi-evergreen forests
(c) Tropical moist deciduous forests
(d) Tropical dry deciduous forests
49. Within Torrid Zone, the sun shines vertically or directly overhead
(a) Thrice a year
(b) Once a year
(c) Twice a year
(d) Never
50. Which of these is/are true?
(a) Tilak linked up the question of Swaraj with the demand for the formation of linguistic states and education in the vernacular.
(b) Tilak and Annie Besant had played a leading role in signing of Congress League Pact.
(c) Both (a) & (b)
(d) Neither (a) nor (b)
51. Which of the following is/are true?
(1) Soil inorganic carbon is not susceptible to biodegradation.
(2) Most Soil organic carbon is found in the northern hemisphere.
(a) Only (1)
(b) Only (2)
(c) Both (1) & (2)
(d) Neither (1) Nor (2)
52. 1. Cameco Corporation the world's largest publicly traded uranium company is based at Australia.
2. India operates 21 nuclear reactors providing 6,000 megawatts of nuclear capacity meeting about 3% of the country's electricity needs.
Which of these statements is/are correct?
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
53. The working class leader(s) was/were
(1) Narayan Meghajee Lokhanday
(2) Gopal Ganesh Agarkar
(3) Lala Lajpat Rai
(4) S.A. Dange
(a) 1 & 4
(b) 1, 2, 3 & 4
(c) 2 & 3
(d) 2 & 4
54. Which of the following is/are true?
1. Temperature inversion is a condition in which the temperature of the atmosphere increases with altitude in contrast to the normal decrease with altitude.
2. An decrease in smog occurs when an inversion is present because they circulate the pollutants away.
(a) Only 2 is true
(b) Only 1 is true
(c) 1 and 2 are false
(d) 1and 2 are true
55. Deen Dayal Antayodaya Yojana is aided by
(a) World Bank
(b) NDB
(c) ADB
(d) ODA Japan
56. Which of the following is/are true about Siachen Glacier?
(a) It is located in the eastern Karakoram range in the Himalaya Mountains.
(b) It is the longest glacier in the world outside of the polar regions.
(c) Both (a) & (b) are correct.
(d) Neither (a) nor (b) is correct
57. Who is Rouble Nagi?
(a) Sculptor
(b) Sports Personality
(c) IT Company CEO
(d) Agricultural Scientist
58. Quorum of the GST Council meeting
(a) $(1/6)^{\text{th}}$ of the total number of its members
(b) $(1/2)^{\text{th}}$ of the total number of its members
(c) $(1/4)^{\text{th}}$ of the total number of its members
(d) $(1/10)^{\text{th}}$ of the total number of its members
59. Which one of the following statements is/are not true?
(a) Black Soil retains the moisture for a very long time.
(b) Black Soil lack in phosphorous, nitrogen and organic matter.
(c) Both (a) & (b)
(d) Neither (a) nor (b)
60. Most of the desert plants blooms during night time because
(a) their blooming is controlled by low temperature
(b) they are sensitive to the phases of moon
(c) the desert insects eat away flowers during daytime.
(d) the desert insects are active during nighttime
61. The Moplah tenants were Muslims and they agitated against
1. Hindu landlords
2. British government
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
62. Who authored Bandi Jeevan?
(a) Ramprasad Bismil
(b) Jogesh Chatterjee
(c) Sachindranath Sanyal
(d) None of these

63. 1. Io is the most volcanically active object in the solar system.
2. NASA's Juno spacecraft will map Jupiter's gravity and magnetic fields and also track how much water is present in the atmosphere.
Which of these statements is/are correct?
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
64. 1. The moderates felt that the masses were backward and lethargic.
2. The moderates opposed the official policy of disarming the people.
Which of the above statements is/are FALSE?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
65. What is **SDG4**?
(a) Zero Hunger
(b) Quality Education
(c) Clean Water and Sanitation
(d) Climate Action
66. Fair Remunerative Price is applicable for
1) Rice and Wheat 2) Tea 3) Sugarcane
(a) 1 and 2
(b) Only 1
(c) Only 3
(d) 2 and 3
67. Which type of soil is typical of the Deccan trap region spread over northwest Deccan plateau and is made up of lava flows?
(a) Regur Soil
(b) Laterite Soil
(c) Loamy Soil
(d) None of these
68. This was the first attempt at an all-India mass struggle against the British.
(a) Non-Cooperation Movement
(b) Rowlatt Satyagraha
(c) Swadeshi Movement
(d) None of these
69. Languages thus far declared to be Classical are
1. Odiya 2. Telugu 3. Tamil 4. Dogri
(a) 1, 2 & 3
(b) 1, 2, 3 & 4
(c) 2, 3 & 4
(d) 1, 3 & 4
70. What does the term "Chinook" mean?
(a) Temperate cyclone
(b) Snow eater
(c) Snow crater
(d) Tropical cyclone
71. Hurricanes occur in areas of
1. high humidity. 2. light winds.
3. warm sea surface temperatures.
Which of these statements are correct?
(a) 1 and 2
(b) 1 and 3
(c) 2 and 3
(d) 1, 2 and 3
72. Who was the first Indian to kindle the foreign clothes?
(a) Vir Sawarkar
(b) Vasudev Balwant Phadke
(c) Ramprasad Bismil
(d) Ashfaq Ullah Khan
73. In the Troposphere, the rate of temperature decrease is
(a) 0.65°C per 100 metres
(b) 1°C per 50 metres
(c) 0.65°C per 50 metres
(d) 16°C per mile
74. The torrid climatic zone lies between the Tropic of cancer and
(a) Tropic of Capricorn
(b) Arctic circle
(c) Antarctic circle
(d) Equator
75. Radio carbon in nature is produced as a result of
(a) The action of UV rays on ordinary carbon.
(b) The action of IR rays on ordinary carbon atmosphere nitrogen.
(c) The action of cosmic rays on earth's atmospheric nitrogen.
(d) The action of X-rays on ordinary carbon.
76. The expression "green gold" refers to
(a) Shale Gas
(b) Bamboo
(c) Spirulina
(d) Anabena
77. British government declared him 'Wanted' with a bounty of Rs. 4000/- . Who is the revolutionary referred here?
(a) Vir Sawarkar
(b) Vasudev Balwant Phadke
(c) Ramprasad Bismil
(d) Ashfaq Ullah Khan
78. Who represented Indian National Congress at the Brussels Congress of the League against Imperialism in 1927?
(a) Subhas Bose
(b) Motilal Nehru
(c) Mahtma Gandhi
(d) Jawaharlal Nehru
79. 1. "Giftmilk" scheme aims to improve child nutrition thought consumption of milk & milk products by providing milk at low cost.
2. It is a scheme by National Dairy Development

- Board.**
Which of these statements is/are correct?
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
80. **Which of these is/are true?.**
(a) "Ghadar Party's root organization was the Pacific Coast Hindustan Association, which was formed in 1912 in Portland, Oregon in the United States.
(b) Ghadarites published an Urdu newspaper called "The India."
(c) Both (a) & (b)
(d) Neither (a) nor (b)
81. **Which of the following is/are correct statement (s)?.**
(a) The boycott of law courts by lawyers was not as successful as the educational boycott, but it was very dramatic and spectacular during Non-Cooperation Movement.
(b) The Tilak Swaraj Fund was over-subscribed, exceeding the target.
(c) Both (a) & (b) are correct.
(d) Neither (a) nor (b) is correct
82. **The Swarajists finally walked out of the legislatures in 1930 as a result of the**
1. Lahore Congress resolution
2. Beginning of civil disobedience
(a) Only 1
(b) Only 2
(c) 1 & 2
(d) Neither 1 nor 2
83. **If there is no atmosphere then the length of the day light on the earth will**
(a) Increase
(b) Decrease
(c) Remain the same
(d) be tripled
84. **Friendship Bridge between Afghanistan and Uzbekistan was built by**
(a) USSR
(b) India
(c) Germany
(d) China for OBOR Initiative
85. **1. Almost all the weather phenomena like rainfall, fog and hailstorm occur in Troposphere.
2. Meteorites burn up in Mesosphere on entering from the space.
Which of these statements are correct?**
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
86. **Shola forests are**
(a) Tropical Forests
(b) Temperate Forests
(c) Montane Forests
(d) None of these
87. **World's largest aircraft launched in August 2016**
(a) Airlifter 10
(b) Airlander 10
(c) Airglider 10
(d) Airbogie 10
88. **Super moon occurs when**
(a) the moon is farthest from the Earth.
(b) the moon is at its closest to the earth
(c) Either (a) or (b) position
(d) Neither (a) nor (b) position
89. **1. PSLV-C35 carried advanced satellite SCATSAT-1 which will help provide wind vector data products for weather forecasting cyclone detection and tracking services to the users.
2. PSLV-C35 carried seven co-passenger satellites from Brazil, Canada, USA and two from India.
Which of these statements is/are correct?**
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
90. **1. Minimum Support Prices (MSP) is declared for 24 crops.
2. Final authority deciding and approving the MSP is Commission for Agricultural Costs and Prices.
Which of these statements is/are correct?**
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
91. **Which of the following statements is/are correct about President's Bodyguard (PBG)?**
(a) It was raised in 1773 at Benares by the then Governor, Warren Hastings.
(b) It is open only to Hindu Rajputs, Hindu Jats and Jat Sikhs.
(c) Both (a) & (b)
(d) Neither (a) nor (b)
92. **The Home Rule Leaguer (s) is/are**
(1) B.P. Wadia (2) George Arundale
(3) S. Subramania Aiyar
(a) Only 1 & 2
(b) Only 2
(c) 1,2 & 3
(d) Only 1 & 3
93. **"Connecting Global Climate Action" report is released by**
(a) World Bank
(b) UNDP
(c) UNFCCC
(d) World Travel and Tourism Council
94. **Which of the following conditions favour Inversion of Temperature?**
(a) Absence of wind, Clear sky

- (b) Long winter nights, Snow covered surface
(c) Both (a) and (b)
(d) None of these
95. 1. Typically, El Niño occurs more frequently than La Niña.
2. Southern Oscillation is the atmospheric changes part of ENSO.
Which of the above statements is/are FALSE?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
96. Who formed a revolutionary group called as Ramoshi?
(a) Vir Sawarkar
(b) Vasudev Balwant Phadke
(c) Ramprasad Bismil
(d) Ashfaq Ullah Khan
97. Which one of the following is known as the "Coffee port" of the world?
(a) Sao Paulo
(b) Santos
(c) Rio de Janeiro
(d) Buenos Aires
98. The most variable weather on Earth is found in the mid-latitudes between
(a) the Tropic of Cancer and the Arctic Circle
(b) the Tropic of Capricorn and the Antarctic Circle
(c) Both (a) & (b) are correct.
(d) Neither (a) nor (b) is correct
99. Peroxyacetyl nitrate (PAN) kills plants by
(a) aging them prematurely
(b) shutting down photosynthesis
(c) depleting their food
(d) leaching its nutrients
100. Identify the incorrect pair.
(a) Chitt-Chete - Padma Sachdev.
(b) SAARCSTAT – Satellite launched jointly by SAARC Nations.
(c) LEMOA – India –USA.
(d) Operation Muskaan - Ministry of Home Affairs.

Crackingias.com

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

9884554654

Raja Sir's

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

GS PRELIMS 2017
RAPID FIRE CLASSES @ CHENNAI
SOLID 60 FOCUS
FROM JAN 20 - MAY 20

Call: us: 09884
Political Scie

irs booklet

7

FREE ENTRY TO TEST SERIES PRELIMS - 2017
DYNAMIC POTENTIAL QUESTIONS

1. The sensation of sound persists in our brain for about
- $(1/10)^{\text{th}}$ of a second
 - $(1/16)^{\text{th}}$ of a second
 - $(1/12)^{\text{th}}$ of a second
 - $(1/8)^{\text{th}}$ of a second
2. Consider the following statements.
- Sound waves in air are longitudinal waves.
 - Particles of the medium through which the sound is transported vibrate parallel to the direction that the sound wave moves.
- Which of the above statements is/are true?.
- Only 1 is true.
 - Only 2 is true.
 - 2 is the correct reason of 1.
 - 2 is not the correct reason of 1.
3. Where is Ross Sea?
- Antarctic
 - Arctic
 - Australia
 - Middle East
4. It / They is/are not the modified root(s).
- Radish
 - Mango
 - Ginger
 - Sweet Potato
- 1, 2, 3
 - Only 2
 - 1 & 3
 - 2 & 3
5. Copper and Zinc are present in
- Brass
 - Bronze
- Only 1
 - Only 2
 - 1 & 2
 - Neither 1 nor 2
6. Retina of eye is analogous to ____ of camera
- Lens
 - Film
 - Shutter
 - Aperture
7. New Agenda Coalition is meant for
- Women Empowerment
 - Nuclear Disarmament
 - Reducing Carbon Emissions
 - New International Economic Order
8. When applied to the affected area, which one of the following will relieve the pain due to ant-bite or bee-sting?.
- Baking soda
 - Caustic soda
 - Lemon juice
 - Sucrose
9. Rub an inflated balloon against a piece of fur and bring the balloon near some tiny bits of paper. The observation would be
- The paper bits are at rest.
 - The paper bits jump and stick to the balloon.
 - The paper bits jump but does not stick to the balloon.
 - The paper bits fly away.
10. For reproducing sound, a CD (Compact Disc) audio players uses a
- quartz crystal
 - titanium needle
 - laser beam
 - barium titanate ceramic
11. Otter is a/an
- Ave
 - Reptile
 - Mammal
 - Amphibian

12. Colour vision is mediated by
 (a) Cones
 (b) Rods
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
13. These are the functions of liver.
 (1) Glycogen storage (2) Bile production
 (3) Drug detoxification
 (4) Emulsification of fats
 (a) Only 2
 (b) Only 2 & 4
 (c) 1, 2, 3 & 4
 (d) 1, 2 & 4
14. *Laminaria digitata* a great source of iodine is
 a/an
 (a) Pteridophyte
 (b) Bryophyte
 (c) Fungi
 (d) Algae
15. Cyclone Kyant hit
 (1) Odisha (2) Andhra (3) Gujarat
 (a) Only 1 & 2
 (b) Only 2
 (c) Only 3
 (d) 1,2 & 3
16. Water gas contains
 (a) Carbon monoxide and Hydrogen
 (b) Carbon dioxide and Hydrogen
 (c) Carbon dioxide and Methane
 (d) Carbon monoxide and Methane
17. Dirty cloths containing grease and oil stains are cleaned by adding detergents to water. Stains are removed because detergent
 1. reduces drastically the surface tension between water and oil 2. decreases the viscosity in
 detergent mixed water
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
18. Cardiac Muscle is
 (a) Involuntary and Striated
 (b) Voluntary and Spindle Shaped
 (c) Voluntary and Striated
 (d) Involuntary and Spindle Shaped
19. By digesting insects, the insectivores plants obtain
 (a) Nitrogen
 (b) Hydrogen
 (c) Calcium
 (d) Potassium
20. Fullerenes are composed of
 (a) Silicon
 (b) Helium
 (c) Carbon
 (d) Xenon
21. Chicle is obtained from
 (a) Sapota Tree
 (b) Cinchona Tree
 (c) Willow wood tree
 (d) None of these
22. Consider the following statements:
 1. Missile Technology Control Regime is a formal political understanding with legally binding obligations.
 2. China is not a member of the MTCR but India has become observer in MTCR.
 Which of these statements are correct?
 (a) 1 and 2 are correct
 (b) Only 1 is correct

- (c) Only 2 is correct
(d) None is correct
23. A bucket of water is hung from a spring balance. A piece of iron is suspended in the water without touching the sides or touching the bottom of the bucket. The reading of the spring balance
- (a) will increase
(b) will decrease
(c) does not change
(d) varies with the increase of depth of the immersion of the iron piece
24. Which of the following is/are known as Ruminants?.
- (1) Cow
(2) Buffalo
(3) Deer
- (a) Only 1 & 3
(b) Only 1
(c) Only 1 & 2
(d) 1, 2 & 3
25. Azolla - a bio fertilizer is a / an
- (a) Bryophyte
(b) Algae
(c) Pteridophyte
(d) Fungi
26. Committee headed by Muniappa has been constituted
- (a) to monitor Bird Flu
(b) to prevent Black Money
(c) to study feasibility of India's Fusion Reactor
(d) to recommend strategies for Strategic Disinvestment.
27. Magnetic Resonance Imaging (MRI) is used in medical diagnosis to obtain image our internal body organs. This is primarily possible because
- (a) Our body acts like soft magnet.
(b) MRI uses an external magnet to generate a magnetic field in our body
(c) Ion's motion along our nerve cells generates magnetic fields
(d) MRI uses an external electric field to generate magnetic field in our body
28. Infrasonic are produced by
- (1) Elephant
(2) Rhinoceros
(3) Some Fishes
- (a) Only 1 & 3
(b) Only 1
(c) Only 1 & 2
(d) 1, 2 & 3
29. Plants die in winter by frost because
- (a) There is no transpiration
(b) There is no photosynthesis
(c) There is no respiration
(d) There is no food transportation
30. "The Ministry of Utmost Happiness" is authored by
- (a) Chetan Bhagat
(b) Sushma Swaraj
(c) Pranab Mukherjee
(d) Arundhati Roy
31. Consider the following statements.
1. A man can see his full image in a plane mirror whose height is half of his height.
2. Concave mirror is used as shaving mirror.
- Which of the above statements is/are true?
- (a) Only 1
(b) Only 2
(c) Both 1 and 2
(d). Neither 1 nor 2

32. The property of ultrasonic waves used in manufacturing emulsion for photographic films is its
- High Speed
 - High Frequency
 - Higher Wavelength
 - High Amplitude
33. Which of the following is/are seaweeds?
- Red algae
 - Brown algae
 - Both (a) and (b)
 - Neither (a) Nor(b)
34. These hit China
- (1) Malakas (2) Meranti (3) Megi
- Only 1 & 2
 - Only 2
 - Only 3
 - 1,2 & 3
35. Consider the following statements.
1. Wavelength of a light does not depend on the medium.
 2. Speed of a light depends on the medium.
- Which of the above statements is/are true?
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
36. Which of the following is/are true?.
- When sunlight passes through the atmosphere, the fine particles in air scatter the blue colour more strongly than red.
 - If the earth had no atmosphere then the sky would have looked dark.
 - Both (a) & (b)
 - Neither (a) nor (b)
37. Consider the following statements about Large Intestine.
1. The large intestine is wider and shorter than small intestine.
 2. The large intestine absorbs water and some salts from the undigested food material.
- Which of the above statements is/are true?.
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
38. Malaria affects the
- Heart
 - Kidneys
 - Lungs
 - Spleen
39. A car parked in the sun with its windows closed gets terribly hot inside. This is due to
- greenhouse effect
 - heat emitted by the engine
 - double layered wind shield
 - good conducting power of the metal body
40. The elements which are liquids at room temperature and standard pressure -
1. Helium 2. Mercury 3. Chlorine 4. Bromine
- Select the correct answer using the code given below :
- 2 and 3 only
 - 2, 3 and 4
 - 2 and 4 only
 - 1 and 3
41. 1. The Inter-state council is a permanent constitutional body.
2. The Inter-state council is a regulatory body.
- Only 1 is true
 - Only 2 is true

- (c) 1 & 2 are true
(d) Neither 1 nor 2 is true
42. If a sound travels from air to water, the quantity that remain unchanged is
(a) velocity
(b) frequency
(c) wavelength
(d) amplitude
43. Consider the following statements.
1. Sound is a mechanical wave.
2. It cannot travel through a vacuum.
Which of the above statements is/are true?
(a) Only 1 is true.
(b) Only 2 is true.
(c) 2 is the correct reason of 1.
(d) 2 is not the correct reason of 1.
44. What is the speed of ultrasound waves in the air?
(a) 340 m/s
(b) 1,500 m/s
(c) 700 m/s
(d) 3,500 m/s
45. The Living Planet Report is
(a) published every year by WWF.
(b) published every two years by WWF.
(c) published every year by IUCN.
(d) published every two years by IUCN.
46. Lightning is produced when
(a) Similar charges of electricity rush towards each other and then get repelled
(b) clouds strike against impurities in air and the friction burns up these impurities
(c) strong opposite charges in different clouds break down the resistance offered by the intervening air
(d) water vapour produces electricity in the clouds
47. Fool's Gold is
(a) Lead Sulphide
(b) Copper Pyrites
(c) Iron Pyrites
(d) Stannous Oxide
48. It is the site of the complete digestion of carbohydrates, proteins and fats.
(a) Liver
(b) The Large intestine
(c) The Small intestine
(d) Pancreas
49. Prajna Chowta is
(a) Wildlife Film Maker
(b) Economist
(c) Industrialist
(d) Genetic Engineer
50. Consider the following statements.
1. From violet to red wavelength of light increases.
2. Convex mirror is used as safety viewers on upper deck buses. Which of the above statements is/are FALSE?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d). Neither 1 nor 2
51. Identify the correct statement(s).
(a) The velocity of sound in hydrogen is greater than that in oxygen because hydrogen is a lighter gas.
(b) Sound waves of different frequencies travel with different speed in air.
(c) Both (a) & (b)
(d) Neither (a) nor (b)
52. Magnetic Resonance Imaging is a process of creating images from the manipulation of

- (a) hydrogen atoms in magnetic fields.
 (b) carbon atoms in magnetic fields.
 (c) oxygen atoms in magnetic fields.
 (d) nitrogen atoms in magnetic fields.
53. Which is the first country in the world to ban plastic plates, cups and utensils, passing a law that will go into effect in 2020?
 (a) Finland
 (b) France
 (c) Sweden
 (d) Australia
54. Normal sunlight is usually described as
 (a) Red light
 (b) Yellow light
 (c) Blue light
 (d) White light
55. The connective tissue(s) is/are
 (1) Ligament (2) Cartilage
 (3) Blood (4) Bone
 (a) Only 1 & 2
 (b) Only 2
 (c) 1,2,3 & 4
 (d) 1,2 & 3
56. Animal charcoal is a rich source of
 (a) Nitrogen
 (b) Oxygen
 (c) Sulphur
 (d) Phosphorus
57. It is known as Space algae.
 (a) Chlamydomonas nivalis
 (b) Puccinia graminis
 (c) Erysiphe graminis
 (d) Chlorella
58. When one enters a dark room after being in bright light one is not able to see anything clearly for a while because
 (a) the retina of the eye moves forward
 (b) the retina of the eye moves backward
 (c) the iris is unable to dilate the pupil
 (d) the eye has no power of accommodation
59. When all the wavelengths of the visible light spectrum strike your eye at the same time
 (a) Violet is perceived.
 (b) Black is perceived.
 (c) White is perceived.
 (d) Green is perceived.
60. This digestive enzyme is produced in the salivary glands and the pancreas
 (a) Lipase
 (b) Nuclease
 (c) Pepsin
 (d) Amylase
61. The base of an electric iron is brightly polished mainly because
 (a) to make it smooth and frictionless
 (b) to reduce heat loss by radiation
 (c) to make it rust-proof
 (d) All the above
62. Ambergri is an excretion from the
 (a) Hippopotamus
 (b) King Sparrow
 (c) Oliver Ridley Turtles
 (d) Sperm Whale
63. The type of respiration in Earthworm is known as
 (a) Seatal Respiration
 (b) Tubular Respiration
 (c) Tracheal Respiration
 (d) Cutaneous Respiration

64. Which of the following is/are correct statement (s)?
- Fishing cat is the state animal of West Bengal.
 - They are mainly found in the mangrove forests of the Sundarbans.
 - Both (a) & (b) are correct.
 - Neither (a) nor (b) is correct
65. Formation of shadows can be explained by
- total internal reflection
 - rectilinear propagation of light
 - diffraction
 - refraction
66. Consider the following statements.
- Vascular tissue of the complex plants has made possible their survival in the terrestrial environment.
 - Phloem consists of tracheids, vessels, companion cells and phloem fibers.
- Which of the above statements is/are FALSE?
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2
67. Oxygen becomes so rare that breathing is impossible at an altitude of
- 8km
 - 15 km
 - 10 km
 - 6.5 km
68. Which of the following has launched India's first full-scale Cyber security Engagement Center (CSEC) in Delhi?
- Oracle
 - Microsoft
 - TCS
 - Infosys
69. The red colour in the sky at sunset (and sunrise) is due to
- reddish-orange light is most scattered by the atmosphere.
 - reddish-orange light is least scattered by the atmosphere.
 - during that time sun emits only reddish-orange light.
 - during that time sun absorbs only reddish-orange light.
70. The term 'Biological Passport' means
- DNA profiling of an individual
 - An Athletes biological marker for Doping Test
 - Biological Signature of a diseased person
 - An initiative to promote Medical tourism in India
71. Starting from the best quality of iron ore, Which one of the following is the correct sequence of the iron ore based on the contents of pure iron?
- Magnetite__Hematite__Limonite__Siderite
 - Hematite__Magnetite__Limonite__Siderite
 - Magnetite__Hematite__Siderite__Limonite
 - Hematite__Magnetite__Siderite__Limonite
72. Global Gender Gap Report is published by
- IMF
 - WB
 - WEF
 - UNDP
73. Hard water does not give lather with soap, because of 1. High pH 2. Calcium and Magnesium ions
- Only 1
 - Only 2
 - Both 1 and 2
 - Neither 1 nor 2

74. Where is the "seat of consciousness" in human brain?
 (a) The Cerebrum
 (b) The Cerebellum
 (c) Medulla Oblongata
 (d) Foramen monroe
75. Quinine, is obtained from which part of the plant?
 (a) flowers
 (b) root
 (c) stem bark
 (d) leaves
76. 1. The frequency of monetary policy review is bi-monthly.
 2. There are six members in total in Monetary Policy Committee.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) 1 & 2 are true
 (d) Neither 1 nor 2 is true
77. The word "Nanotechnology" was first coined by
 (a) Drexler
 (b) Feynman
 (c) Faraday
 (d) Kroto
78. Which of these do not contain sulphur?
 1. Copper Pyrites
 2. Galena
 3. Zinc blende
 (a) 1 & 2
 (b) 1, 2 & 3
 (c) None of these
 (d) 2 & 3
79. Which of these is/are true?
 1. The electrical appliances of our houses are all connected in a parallel circuit.
 2. Only in a parallel circuit current flows through each appliance separately and hence even if we switch off any of the appliance, the others will continue to work.
 (a) Only 1 is true.
 (b) Only 2 is true.
 (c) 2 is the correct reason of 1.
 (d) 2 is not the correct reason of 1.
80. Which one of the following organisms can serve as a bio-fertilizer for rice crop?
 (a) Blue-green algae
 (b) Rhizobium sp
 (c) Mycorrhizal fungi
 (d) Azotobacter sp
81. A geostationary satellite revolves round the earth from
 (a) West to East
 (b) East to West
 (c) North to South
 (d) South to North
82. Identify the correct statement (s)
 (a) A human brain makes up about 1.9% of total body weight.
 (b) A human brain requires 20% of the total blood supply.
 (c) Both (a) & (b) are correct.
 (d) Neither (a) nor (b) is correct
83. Consider the following statements.
 1. Light always travels slower in a material than it does in a vacuum.
 2. All values of refractive index are greater than one.
 Which of the above statements is/are true?
 (a) Only 1

- (b) Only 2
(c) Both 1 and 2
(d). Neither 1 nor 2
84. Nobel prize in economics 2016 was awarded to **Oliver Hart and Bengt Holmström** for
(a) their work on Contract Theory
(b) their work on Social Democracy
(c) their work on Economies of Scale
(d) their work on Say's law of Markets
85. Cats can survive falls from great heights, because
1. Cats have a high body surface area in proportion to their weight.
2. Cats have what is called aerial righting reflex.
(a) Only 1
(b) Only 2
(c) Neither 1 nor 2
(d) 1 & 2
86. Most of the carbon dioxide produced by tissues is transported to the lungs as
(a) Gas bound to hemoglobin in the red blood cells
(b) Gas transported through the lymphatic system
(c) Bicarbonate ions in the plasma
(d). None of these
87. The pigments which are responsible for blue, purple and some red colors of plants are
(a) Anti-oxidants
(b) Anthocyanin
(c) Flavoproteins
(d) Melano esters
88. Enforcement Directorate enforces
1. Prevention of Money Laundering Act
2. Foreign Exchange Management Act
(a) 1 and 2
(b) Only 1
(c) Only 2
(d) Neither 1 Nor 2
89. "Green Muffler" is related to
(a) Air Pollution
(b) Soil Pollution
(c) Noise Pollution
(d) Water Pollution
90. Consider the following statements.
1. Longitudinal sound waves travel faster in solids than they do in liquids than they do in gases.
2. Solids have the strongest interactions between particles, followed by liquids and then gases.
Which of the above statements is/are true?
(a) Only 1 is true.
(b) Only 2 is true.
(c) 2 is the correct reason of 1.
(d) 2 is not the correct reason of 1.
91. Chilgoza is obtained from
(a) Mango
(b) Palm tree
(c) Pine
(d) Cycas
92. Annual Greenhouse Gas Bulletin is released by
(a) Global Environment Facility
(b) United Nations Environment Programme
(c) Intergovernmental Panel on Climate Change
(d) World Meteorological Organization
93. When added in equal proportions, red, green, and blue result in
(a) Cyan
(b) Purple
(c) Black
(d) White
94. The major excretory product in humans is
(a) Urea

- (b) Creatinine
- (c) Ammonia
- (d) Uric Acid

95. It is used in preparing windows for X-Ray Tubes

- (a) Asbestos
- (b) Carborundum
- (c) Mica
- (d) Beryllium

96. What is "Peste des petits ruminants"?

- (a) An INGO
- (b) A IGO
- (c) A disease
- (d) A medicine

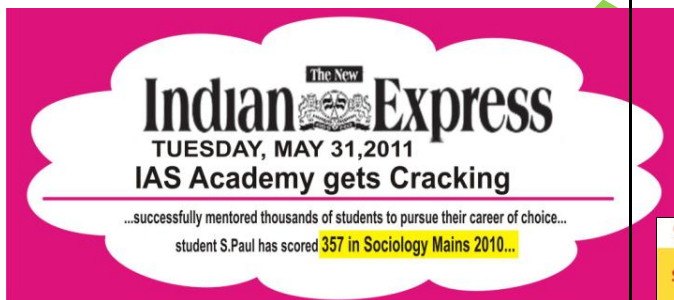
99. Which of the following is/are true about transpiration in plants?.

- (1). It helps in temperature regulation.
- (2). It provides water for photosynthesis.

- (a) 1 only
- (b) 1 and 2
- (c) 2 only
- (d) Neither 1 nor 2

100. Commercial cork is obtained from the bark of

- (a) Oak
- (b) Maple
- (c) Butea
- (d) Deodar



The New Indian Express
TUESDAY, MAY 31, 2011
IAS Academy gets Cracking
...successfully mentored thousands of students to pursue their career of choice...
student S.Paul has scored **357** in Sociology Mains 2010...

97. Brilliant colors in a thin soap film is caused by

- 1. Multiple reflection
- 2. Interference
- 3. Polarization

- (a) 1 & 2
- (b) Only 2
- (c) 1 & 3
- (d) 2 & 3

98. Overproduction of which of the following neurotransmitter has been associated with the mental disorder 'Schizophrenia' ?.

- (a) Acetylcholine
- (b) GABA
- (c) Dopamine
- (d) Serotonin

9884554654

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Raja Sir's

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

Sail thru GS OCEAN
UPSC cannot
Escape Our Prediction

Joining CrackingIAS for GS - Best decision in my Life till date, Thavaseelan, IAS
Produced AIR < 20 twice, <40 once, & Many more IAS, IPS, IFS.

402 Selections since 2005

CrackingIAS.com

1. Which part of the flower is Cauliflower?.
- (a) Calyx
 (b) Inflorescence
 (c) Ovule
 (d) Anther
2. What is "Cyber Gram"?.
- (a) It aims to import digital literacy to students in minority concentrated govt. schools and Madarsa.
 (b) It aims to promote digital literacy among elderly persons of rural areas.
 (c) It is a programme which provides legal education in rural areas.
 (d) It is a programme which focuses on promoting digital literacy among SC/STs in rural area.
3. Consider the following statements regarding the office of Whip.
- (1) The office of Whip is mentioned in the Parliamentary Statute.
 (2) He is appointed by the Speaker.
 Which of the above statements is/are true?.
- (a) Only 2
 (b) Only 1
 (c) Both 1 and 2
 (d) Neither 1 nor 2
4. What is "HIMANSH"?
- (a) a night vision device designed by DRDO.
 (b) a project under AYUSH.
 (c) an endangered bird of Himalaya.
 (d) a high altitude research station in Himalaya.
5. Chilgoza is obtained from
- (a) Mango
 (b) Palm tree
 (c) Pine
 (d) Cycas
6. Biodigester toilets are hailed as a solution to many of our problems. Which of the following about biodigester toilets is correct?.
1. they use methanogenic bacteria
 2. they require no or very low maintenance
 3. the use less water
- (a) 1 and 2 only
 (b) 1 and 3 only
 (c) 2 and 3 only
 (d) 1, 2 and 3
7. Consider the following statements with respect to alleged inhuman conditions of relief camps for riots victims in a state in India:
1. Taking suo motu cognizance, NHRC may order independent probe to inquire into violation of human rights but only within one year of the incident.
 2. NHRC may order the state government to make payment of compensation or damages to the victims.
 Which of the above statements is/are correct?
- (a) Only 2
 (b) Only 1
 (c) Both 1 and 2
 (d) Neither 1 nor 2
8. Consider the following statements regarding India – Russia MBIR project.
1. It is based on open fuel cycle.

2. It is a fusion reactor.
Which of the above statements is/are true?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
9. Filariasis is caused by
(a) Algae
(b) Mosquito
(c) Worm
(d) Virus
10. Catching 'red handed' in bribery cases often read in news is based on
(a) Biometric identity
(b) Pentothal Reaction
(c) Phenolphthalein Test
(d) Bionic Scanning
11. 1. The entire constitution of India came into force on January 26, 1950 only.
2. The Indian independence act, 1947 and Government of India act, 1935 were repealed on 26th November, 1949.
(a) Both statements are true
(b) Both statements are false
(c) 1 is true but 2 is false
(d) 2 is true but 1 is false
12. Which of the following is/are FALSE regarding Jal Marg Vikas Project?
1) Japan's ODA is providing technical assistance and investment support for the Project.
2) Three multi-modal terminals have been planned under the Project.
(a) Only 1
- (b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
13. Transformative Carbon Asset Facility is launched by
(a) World Bank
(b) UNEP
(c) WEF
(d) WTO
14. Human bodies can be scanned with Magnetic Resonance Imaging (MRI) because they contain
(a) carbon
(b) oxygen
(c) hydrogen
(d) iron
15. Which of the following statements is/are correct?
1. Mandal Commission recommended for the exclusion of advanced section among the 'Other Backward Classes' (creamy layer) from reservation.
2. Reservation in promotion is not available to 'Other backward classes' (OBCs).
3. National commission for Backward Classes is a constitutional body.
(a) Only 3
(b) Only 2
(c) Only 1 and 2
(d) Only 2 and 3
16. It suspended cooperation with UNESCO recently.
(a) Iran

- (b) Israel
(c) Syria
(d) China
17. Which of these is/are true?
 1. A colour blind boy can't receive a colour blind 'gene' from his father.
 2. Red/Green colour blindness is far more common in men than women.
 (a) Only 1
 (b) Only 2
 (c) 1 & 2
 (d) Neither 1 nor 2
18. Which of the following are the members of the committees which recommends the name of Chief Information Commissioner.
 1. Prime Minister
 2. Speaker
 3. Leader of Opposition in Lok Sabha.
 4. Union Home Minister
 (a) Only 1 and 3
 (b) Only 1, 3 and 4
 (c) Only 1, 2 and 3
 (d) 1, 2, 3 and 4
19. Which of the following statements are correct?
 1. No law that seeks to implement the socialistic directive principles specified in Article 39(b) or (c) shall be void on the ground of contravention of any of the fundamental rights.
 2. Articles 31 A, 31B and 31C act as exceptions to the fundamental rights.
 Which of the statements given above is/are correct?.
- (a) Only 2
 (b) Only 1
 (c) Both 1 and 2
 (d) Neither 1 nor 2
20. Which of the following countries is not a member of the "MERCOSUR" trading bloc?
 (a) Argentina
 (b) Paraguay
 (c) Uruguay
 (d) Chile
21. Asparagus is a
 (a) Bud
 (b) Inflorescence
 (c) Leaf
 (d) Stem
22. 1. Induced Pluripotent Stem Cells (iPSCs) are originally embryonic stem cells.
 2. Tissues derived from iPSCs can avoid rejection by the immune system.
 Which of the above statements is/are FALSE?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
23. The Little Rann of Kutch is the only home of the
 (a) Great Indian Bustard.
 (b) Blackbuck.
 (c) Flamingo.
 (d) Indian Wild Ass

24. **Objective/(s) of Vanbandhu Kalyan Yojana**
 1) Improving the quality of education
 2) Protection of tribal culture and heritage
 3) Sustainable employment for tribal families
 (a) 1, 2 and 3
 (b) 3 only
 (c) 1 and 2 only
 (d) 2 and 3 only
25. **Antacids contain**
 (a) Magnesium Hydroxide
 (b) Magnesium Sulphate
 (c) Manganese Hydroxide
 (d) Manganese Sulphate
26. **Swine flu can be transmitted by**
 1. shaking hands with an infected person.
 2. inhaling droplets of virus from sneeze of an infected person.
 3. eating pork products.
 (a) 1 and 2 only
 (b) 1 and 3 only
 (c) 2 and 3 only
 (d) 2 only
27. **Who is the architect of the water and river navigation policy in India?**
 (a) V.K.Krishna Menon
 (b) Narayan Malhotri
 (c) Dr. V.K.R.V.Rao
 (d) Dr. B.R.Ambedkar
28. **First zinc biofortified rice variety in India, was launched in**
 (a) Chhattisgarh
 (b) Thiruvananthapuram
 (c) Pune
 (d) Lucknow
29. **Rhino Virus causes**
 (a) Common Cold
 (b) Non-stop dysentery
 (c) Plague
 (d) Cerebral Polio
30. **The cell wall is absent in**
 1. bacteria 2. blue-green algae 3. plants
 (a) 1 and 3 only
 (b) 2 and 3 only
 (c) None of these
 (d) 1, 2 and 3
31. **With reference to the Collegium system, consider the following statements:**
 (1) The Collegium system is one where the Chief Justice of India and forum of four senior-most Judges of the Supreme Court and the High Court recommend appointments and transfers of Judges.
 (2) There is no mention of the collegium either in the original Constitution of India or in successive amendments.
 Which of the above statement(s) is/are correct?
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
32. **'Neerdhur' refers to**
 (a) A Neem based drug
 (b) A water based bio pesticide
 (c) Nuclear Medicine for TB
 (d) None of these

33. Which of the following come(s) under the Category of Roughages?.
1. Sweet Potato.
 2. Papaya
 3. Beans
- (a) 1 & 2
(b) 1, 2 & 3
(c) 1 & 3
(d) Only 1
34. Assertion (A) – Most satellite TV antenna in India face south, south east or south-west. Reason (R) – TV transmission satellite mostly uses a geostationary orbit.
- (a) Both A and R are true and R is the correct explanation of A
(b) Both A and R are true but R is not a correct explanation of A
(c) A is true but R is false
(d) A is false but R is true
35. 1) It comes under the Ministry of Chemicals and Fertilisers.
2) Its headquarters is situated in Kolkata
Which of the statements given above is/are correct regarding the Petroleum and Explosives Safety Organization (PESO)?.
- (a) 1 & 2
(b) Only 2
(c) Only 1
(d) Neither 1 nor 2
36. National Mission on Bio-economy is under the Ministry of
- (a) Trade & Commerce
(b) Science and Technology
(c) Earth Sciences
(d) Agriculture
37. What is "Taxol"?.
- (a) Plant alkaloid
(b) An extinct mammal
(c) An Insect
(d) An Algae
38. Reusing cooking oil is unhealthy because
- (a) bacteria feeds on food particles left in the oil and can cause food poisoning.
(b) reused oil contains free radicals that can damage cells and lead to increased cancer risk
(c) Both (a) and (b)
(d) Neither (a) nor (b)
39. Consider the following statements :
- (1) Brundtland Commission's definition of sustainable development was focused on development, need and future generation.
 - (2) Tragedy of the Commons refers to the loss of land by small island countries as a result of climate change.
 - (3) Deep Ecology refers to inclusion of underwater species in developmental agenda. Which of the statements given above is/are correct?.
- (a) 1 only
(b) 1 and 2
(c) 2 and 3
(d) 3 only
40. Incorrect timeline/(s) under Kigali Amendment.
- (a) First Group - freeze HFC use by 2022
(b) Second Group - freeze HFC use by 2024

- (c) Third Group - freeze HFC use by 2028
 (d) Both (a) & (c)
41. Eco mark is a certification mark issued by the
 (a) Ministry of agriculture
 (b) Ministry of Environment and Forests
 (c) Bureau of Indian Standards
 (d) National Accreditation Board for Testing
42. Which of the following sectors can be considered for Viability Gap Funding under PPP projects?
 1. Inland waterways
 2. Power
 3. Solid Waste Management
 4. International convention centres
 (a) 1 and 2 only
 (b) 2 only
 (c) 1, 2 and 3 only
 (d) 1, 2, 3 and 4
43. 'He for She' campaign that spreads the message of gender equality has been launched by
 (a) UN
 (b) WB
 (c) CEDAW
 (d) Amnesty International
44. What is a "Bad Bank"?
 (a) Banking mechanism that deals with Funding of terrorists.
 (b) Banking mechanism that deals with environmentally sensitive industries.
 (c) Banking mechanism that deals with high risk venture investments.
 (d) None of these.
45. The principles of Gujral Doctrine is/are
 (1) With the neighbors like Nepal, Bangladesh, Bhutan, Maldives and Sri Lanka, India does not ask for reciprocity but gives all that it can in good faith and trust.
 (2) India will ensure its big brother image in South Asia through Economic aid to weaker nations of South Asia.
 (3) South Asian countries will settle all their disputes through peaceful bilateral negotiations.
 (a) Only 2 & 3
 (b) Only 3
 (c) 1, 2 & 3
 (d) Only 1 & 3
46. Central Statistical Office compiles
 1. National Accounts
 2. Index of Industrial Production (IIP)
 3. Consumer Price Indices
 4. Annual Survey of Industries
 (a) 1 and 3 only
 (b) 1 and 2 only
 (c) 1, 3 and 4 only
 (d) 1, 2, 3 & 4
47. India (RBI) has been caught in the 'impossible trinity' trilemma. This is a news headline. Which of the following are the part of 'Impossible Trinity'?
 1. Stable exchange rate
 2. Free Capital Flows
 3. Independent monetary policy
 4. Fiscal Stimulus
 (a) 1, 2 and 3

- (b) 1, 2 and 4
 (c) 1, 2 and 3
 (d) 2, 3 and 4
48. **Identify the correct statement (s)**
 (a) UN Human Rights Council is 47-member body in based in Geneva.
 (b) As India rejected UNHRC request to visit Kashmir to probe alleged human rights violations by forces, India lost its membership.
 (c) Both (a) & (b) are correct.
 (d) Neither (a) nor (b) is correct
49. **Consider the following statements with regard to National Emergency:**
 1. There were three periods during which a state of emergency was deemed to have existed in political history of Indian Republic till date.
 2. During the National Emergency, fundamental rights under Articles 19 and 20 are suspended automatically.
Which of the statements given above is/are true?.
 (a) Only 1 is true.
 (b) Only 2 is true.
 (c) Both 1 and 2 are true.
 (d) Neither 1 nor 2 is true.
50. **Russian poplar grown for timber, is linked to respiratory ailments and aerial pollution. Where is this grown extensively?.**
 (a) Kerala
 (b) Kashmir
 (c) West Bengal
 (d) Arunachal Pradesh
51. **With reference to Delimitation Commission of India, which among the following statements is / are correct?.**
 1. It is a constitutional body
 2. Its orders cannot be challenged in a court of law
 3. Its orders cannot be modified once laid before Lok Sabha and Rajya Sabha
 (a) 1 and 2 only
 (b) 1 and 3 only
 (c) 2 and 3 only
 (d) 1, 2 and 3
52. **United Group in Rajya sabha refers to**
 (a) Majority Party
 (b) Members from SC & ST
 (c) A coalition of Nominated & Anglo Indian Members in Rajya Sabha.
 (d) None of these
53. **Technology Acquisition and Development Fund has been launched under**
 (a) Start up India stand-up India
 (b) Make in India
 (c) National Manufacturing Policy
 (d) All the above
54. **Which of the statements given above is/are correct w.r.t. Vermin status of animals?.**
 1. "Vermin" finds mention in the Wildlife Protection Act, 1972.
 2. Rhesus Macaque has been declared vermin in Himachal Pradesh.
 3. Any animal listed in Schedule I-IV can be declared vermin.
 (a) 1 and 2 only
 (b) 1 only

- (c) 2 and 3 only
(d) 1, 2 and 3
55. It is not a function of the Reserve Bank of India.
(a) Fiscal Policy Function
(b) Ways and Means Advances
(c) Issuance, Exchange and Destruction of currency notes
(d) Monetary Authority Function
56. Which of the following have never joined NPT?
1. India
2. Israel
3. Pakistan
4. South Sudan
(a) 1, 2 and 3
(b) 1, 2, 3 and 4
(c) 1, 2 and 3
(d) 1, 3 and 4
57. The Chairperson of the Economic Intelligence Council is
(a) Governor, RBI
(b) Finance Minister
(c) Finance Secretary
(d) Chairman, SEBI
58. It is referred to as the 'Molassis basin'.
(a) Manipur
(b) Nagaland
(c) Mizoram
(d) Arunachal Pradesh
59. What is the difference between GSLV and PSLV?
(1) PSLV is used to place remote sensing satellites to Sun-synchronous Polar Orbits only, while GSLV can place satellites into Geosynchronous Transfer Orbit (GTO).
(2) GSLV has four staged cryogenic system, while PSLV has three stage solid and liquid propulsion system.
Which of the statements given above is/are correct?
(a) 1 & 2
(b) Only 2
(c) Only 1
(d) Neither 1 nor 2
60. Public Debt Management Cell has been set up under
(a) RBI
(b) Finance Ministry
(c) PMO
(d) SBI
61. The major element which makes Human Body is
(a) Oxygen
(b) Carbon
(c) Nitrogen
(d) None of these
62. Assertion (A) : Countries cannot eliminate the use of Oral Polio Vaccine (OPV) entirely. Reason (R) : In contrast to OPV, since it does not replicate in the gut, Inactivated Polio Vaccine induces lower levels of intestinal immunity.
(a) A and R both are true, and R is the correct

explanation for A

- (b) A is incorrect, R is correct
- (c) A is correct, R is incorrect
- (d) A and R both are true, and R is the not the correct explanation for A

63. (1) Under the phenomenon of Hindu rate of growth, India continued to experience GDP growth led by the domestic industries.
 (2) This phenomenon was associated with the Indian economy till 1991.
 Which of the statements given above is/are correct?.
- (a) 1 & 2
 - (b) Only 2
 - (c) Only 1
 - (d) Neither 1 nor 2
64. Nobel prize in Medicine 2016 was awarded to Yoshinori Ohsumi for
- (a) his work on Autophagy
 - (b) his work on Golgi Bodies
 - (c) his work on Gene Editing
 - (d) his work on Molecular Probes
65. The Nisarga-Runa technology developed at BARC
- (a) Produces more fissile material in the nuclear reactor
 - (b) Converts biodegradable solid waste into useful manure and methane
 - (c) Slows down the speed of neutrons without using any moderator
 - (d) Protects the Scientist who are working with the highly radioactive substances from the radiations.

66. Which of the following committee has recommended abolition of plan and Non-Plan distinction in the government expenditure?.
- (a) Damodaran Committee
 - (b) Rangarajan Committee
 - (c) Usha Thorat Committee
 - (d) Raja Chelliah Committee
67. Where is "Assumption Island"?
- (a) Lakshdweep
 - (b) Andaman
 - (c) Mauritius
 - (d) Seychelles
68. Consider the following statements.
1. Light always travels slower in a material than it does in a vacuum.
 2. All values of refractive index are greater than one.
- Which of the above statements is/are true?
- (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d). Neither 1 nor 2
69. Which of these is/are true?.
1. Private sector banks come under purview of RBI and RTI.
 2. Vijaya bank is a private sector bank.
- (a) Only 1
 - (b) Only 2
 - (c) 1 & 2
 - (d) Neither 1 nor 2
70. Consider the following statements about the five year plans of India:
1. Garibi Hatao desh bachao was included in

fifth five year plan.

2. The sixth five year plan (1980-1985) marked a shift in pattern of industrialization from heavy industries to infrastructure.

3. The seventh five year plan saw the emergence of outward looking strategy with exports receiving high priority.

4. There was a two year plan holiday between the years 1990-1992.

Which of the above statement/s is/are correct?.

- (a) 1 and 2 only
- (b) 3 only
- (c) 1,2,3 and 4
- (d) 1,2 and 4 only

71. What is the difference between Green diesel and Biodiesel?.

(1) Green diesel is also known as Renewable Diesel.

(2) Biodiesel is produced using a transesterification process.

Which of the statements given above is/are correct?

- (a) 1 & 2
- (b) Only 2
- (c) Only 1
- (d) There is no difference between Green diesel and Biodiesel.

72. "Project Insight" is an initiative of the

- (a) Finance ministry to widen the tax base by detecting tax evaders using technology
- (b) Agriculture ministry to widen the base of revenues by using technology
- (c) Environment ministry to conserve Bio Diversity Hot spots

(d) Earth Sciences ministry to reduce Ecological foot-print.

73. By which Constitutional amendment, the appellation Rajpramukh was omitted?.

- (a) 4th Amendment Act
- (b) 7th Amendment Act
- (c) 10th Amendment Act
- (d) 26th Amendment Act

74. The major crisis that Indian economy faced during 1960s are

1. Foreign exchange crisis
2. Major floods throughout country
3. Aid was cut off from donor countries
4. Sudden rise in defence expenditure

- (a) 1 and 2 only
- (b) 1, 3 and 4 only
- (c) 2 and 3 only
- (d) 1, 2, 3 and 4

75. (1) There can never be a fiscal deficit without a revenue deficit.

(2) There can never be a primary deficit without a fiscal deficit.

Which of the above statements is/are correct?.

- (a) 1 & 2
- (b) Only 2
- (c) Only 1
- (d) Neither 1 nor 2

76. Agricultural Marketing and Farmer Friendly Reforms Index has been launched by

- (a) NITI Aayog
- (b) Agriculture ministry
- (c) Environment ministry

(d) Company Affairs ministry

77. **First Chairperson of the Central Social Welfare Board**

- (a) Indira Gandhi
- (b) Dr. S. Muthulakshmi Reddy
- (c) Sarojini Naidu
- (d) Durgabai Deshmukh

78. **1. India has neither signed NPT nor ratified it.**
2. India has signed CTBT but not yet ratified it.

Which of the above statements is/are true?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

79. **Which of the following enzymes is the first to mix with food in the digestive tract?.**

- (a) Lipase
- (b) Nuclease
- (c) Pepsin
- (d) Amylase

80. **Kigali Amendment**

- 1. amends the 1987 Montreal Protocol**
- 2. will be binding on countries from 2019**

- (a) 1 and 2
- (b) Only 1
- (c) Only 2
- (d) Neither 1 Nor 2

81. **Consider the following statements:**

- 1. While Conservation reserves are**

completely owned by the Government

Community reserves can be privately owned.

2. While Conservation reserves don't affect the right of people living inside, Community reserves affect rights.

3. Both Conservation reserves and Community reserves are notified by respective state governments.

Which of the statements given above is/are correct?

- (a) 1, 2 and 3
- (b) 2 only
- (c) 2 and 3 only
- (d) 1 and 3 only

82. **(1) Liquid sodium**

(2) Helium

(3) Water

(4) Heavy water

Which of the above can be used as a coolant in a nuclear reactor?.

- (a) Only 3 & 4
- (b) Only 1, 2 & 4
- (c) Only 2, 3 & 4
- (d) 1, 2, 3 & 4

83. **Which of the following is/are true?.**

(a) ZED Scheme aims to have stringent Environmental norms as per ISO 14000.

(b) ZED Scheme is meant only for unregulated MSME sector.

(c) Both (a) and (b)

(d) Neither (a) nor (b)

84. **World's first robotic operation has been done in**

- (a) Eye

- (b) Liver
- (c) Heart
- (d) Brain

85. Consider the statements regarding the State Human Rights Commission:

1. Constituting of a State Human Rights Commission is an obligation on every state under the Human Rights Protection Rights Act, 1993.
2. It can inquire into violation of human rights only in respect of subjects mentioned in the State List.
3. The commission can look into a matter of violation of Human Right only within one year of its occurrence.

Which of the statement(s) given above is/are correct?.

- (a) 1, 2 and 3
- (b) 3 only
- (c) 1 and 2 only
- (d) 2 and 3 only

86. What is a closed Fuel Cycle with respect to the nuclear energy production?.

- (a) Closed Fuel cycle is the process in which spent fuel is reprocessed
- (b) Closed Fuel cycle is the process in which spent fuel is not reprocessed
- (c) Preparation of fuel and subsequent processes during reactor operation
- (d) Closed Fuel Cycle refers to the process of separating the spent fuel

87. Mining Surveillance System (MSS) has been developed by

- 1) Bhaskaracharya Institute for Space

Applications and Geo-informatics

2) ISRO

3) Ministry of Electronics and Information Technology (MEITY)

- (a) Only 3
- (b) Only 2
- (c) Only 1 and 2
- (d) Only 1 and 3

88. LCDC campaign is related to

- (a) Child labour
- (b) Health
- (c) Women Empowerment
- (d) Disabled people

89. Which is/are the constitutionally mandated bodies under the 74th Constitutional Amendment Act, 1992?.

1. State Finance Commission
2. State Election Commission
3. District Planning Committee
4. District Rural Development Agency

- (a) 1, 2 and 3 only
- (b) 1 and 2 only
- (c) 1, 3 and 4 only
- (d) 1, 2 and 4 only

90. The Government has proposed to set up 5 new Ultra Mega Power Projects (UMPPs), each of 4000 mw capacity in the 'plug-and-play mode'. What is meant by 'plug-and-play mode' in this context?.

- (a) The UMPPs will be a high end technology venture supported by the government from the very initial phases.

- (b) All clearances and linkages will be in place before the project is awarded by the Government.
- (c) The basic infrastructure of the UMPPs will be setup by the government, and then ownership will be transferred to the private sector for further up gradation.
- (d) None of the above
91. Which of the following is/are true regarding PESA, 1996?
- (a) Gram Sabha has the right to exercise control over money lending to STs
- (b) PESA has been enacted for 5th Schedule areas.
- (c) Both (a) and (b)
- (d) Neither (a) nor (b)
92. Which one of the following statements is/are true about “Demchok mission”?
- (a) It aims at laying an irrigation pipeline.
- (b) It was built under the Mahatma Gandhi National Rural Employment Guarantee Scheme.
- (c) Both (a) & (b)
- (d) Neither (a) nor (b)
93. In Indian context, the concept of ‘due process of law’ was introduced in which of the following?
- (a) Menaka Gandhi Case
- (b) 24th Amendment Act
- (c) Minerva Mills Case
- (d) 44th Amendment Act
94. 1. While Censure motion can be moved against a minister, No-confidence motion can be moved only against entire Council of Ministers
2. The entire Council of Ministers needs to resign if any of these is passed in Lok Sabha. Which among the above statements is / are correct?.
- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2
95. Biotech-KISAN a Farmer centric scheme has been launched by
- (a) Ministry of Agriculture
- (b) Ministry of Environment and Forests
- (c) Department of Science & Technology
- (d) Ministry of Panchayati Raj
96. Consider the following statements regarding FAME India scheme.
1. It intends to promote Indian Tourism.
2. It is implemented by Ministry of External Affairs.
- Which of the above statements is/are true?
- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2
97. With reference to compulsory provisions under 73rd Amendment Act, 1993, Which of the statements given above is/are correct?.
1. Establishment of panchayats at the village, intermediate and district levels.
2. The members and chairpersons of panchayats at the village, intermediate and district levels shall be elected directly by the people.

3. The State Legislature may assign to a Panchayat taxes, duties, tolls and fees levied and collected by the state government.

- (a) 1 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

4. Constituencies should have manageable number of voters

- (a) Only 2
- (b) Only 2 & 3
- (c) Only 2, 3 & 4
- (d) 1, 2, 3 & 4

99. 1. Right to Choose is a fundamental right.
2. Imposing a ban on liquor is a violation of Fundamental Right.

- (a) Only 1 is true
- (b) Only 2 is true
- (c) 1 & 2 are true
- (d) Neither 1 nor 2 is true

100. Consider the following statements regarding Terahertz radiation.

- 1. It is a part of Electromagnetic radiation.
 - 2. It can read a book without opening it.
- Which of the above statements is/are true?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

9884554654
SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Sail thru GS OCEAN
UPSC cannot
Escape Our Prediction

Raja Sir's
CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

Joining CrackingIAS for GS - Best decision in my Life till date. Thiruvareedhar, IAS
Produced AIR < 20 twice, < 40 once, & Many more IAS, IPS, IFS.
402 Selections since 2005 **CrackingIAS.com**

98. Which among the following is/are the "main" objective(s) of the delimitation exercise?.

- 1. Constituencies should have almost equal area
- 2. Constituencies should have almost equal populations
- 3. Constituencies should have almost equal investments in social services

Crackingias.com **9884554654** Raja Sir's
CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

SOCIOLOGY
BEST STUDY MATERIALS
&
CLASS @ CHENNAI

I attended Sociology classes @ Cracking IAS academy, Chennai. Pradeep Kumar, IAS, Tamilnadu Cadre.
371 - MAXIMUM MARKS ACHEIVED IN SOCIOLOGY
402 Selections since 2005

1. Which among the following elements form the sedimentary biogeochemical cycles?
1. Carbon
 2. Sulfur
 3. Calcium
 4. Nitrogen
- (a) 1 and 4 only
(b) 2 and 3 only
(c) 1, 3 and 4 only
(d) 1, 2, 3 and 4
2. Consider the following
1. UV forms only 6% of insolation.
 2. IR forms 43% of insolation and is largely absorbed by water vapour that is concentrated in the lower atmosphere.
 3. Insolation is greatest at the equator.
- Which of these is / are true?
- (a) Only 1 & 2
(b) Only 2 & 3
(c) Only 3
(d) All are true
3. What is/are true?
1. HFC doesn't harm ozone.
 2. The biggest emitters of HFCs are mobile air conditioning (MAC) systems in cars.
- (a) Only 1 is true.
(b) Only 2 is true.
(c) 1 & 2 are true
(d) Neither 1 nor 2 is true
4. Biodiversity Finance Initiative (BIOFIN) has been launched by
- (a) UNDP
(b) UNEP
(c) CBD
(d) UNCTAD
5. Which of the following phenomena is supposedly associated with global warming?
- (a) Southern Oscillation
- (b) El Nino
(c) El Nino Modoki
(d) All the above
6. What is meant by Global 200?
- (a) It is the list of heritage-sites identified by UNESCO, for conservation.
(b) It is the list of eco-regions identified by WWF, the global conservation organization, as priorities for conservation.
(c) It is the list of regions identified by UNICEF, for child Development.
(d) None of these.
7. 1. It is a Global Partnership of Conservation Organization.
2. Bombay Natural History Society is the partner of BirdLife International in India.
- Which of the statements given above is/are correct with reference to "Birdlife International"?
- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
8. Smog containing high levels of sulphur dioxide is called
- (a) Photochemical smog
(b) Reducing smog
(c) Oxidizing smog
(d) Acidic smog
9. 'The Evil Quartet' refers to
1. Habitat loss and fragmentation.
 2. Over exploitation.
 3. Evolution.
 4. Co-extinctions.
 5. Migration.
 6. Alien species invasion.
- (a) 1, 2, 4 and 6 only
(b) 2, 3, 4 and 5 only
(c) 1, 2, 5 and 6 only

- (d) 1, 2, 3 and 6
10. Which of the following organisms constitute the biotic communities of Coral Reefs?
 1. Polyps
 2. Sea Urchins
 3. Red algae
 4. Zooxanthellae
 (a) 1 and 3
 (b) 2 and 4
 (c) 1, 2 and 4
 (d) 1, 2, 3 and 4
11. Photochemical smog levels are more in summer. Why?
 (a) Solar radiation is strongest.
 (b) Temperature inversion & Weak winds
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
12. Which of the following is/are true?
 1. Temperature inversion is a condition in which the temperature of the atmosphere increases with altitude in contrast to the normal decrease with altitude.
 2. A decrease in smog occurs when an inversion is present because they circulate the pollutants away.
 (a) Only 2 is true
 (b) Only 1 is true
 (c) 1 and 2 are false
 (d) 1 and 2 are true
13. Which of the layers of atmosphere is/are significant in determining the air pollution?
 (a) Troposphere only
 (b) Troposphere and Mesosphere
 (c) Troposphere and Stratosphere
 (d) Troposphere, Mesosphere and Stratosphere
14. 1. 'Free radicals' are capable of attacking the healthy cells of the body.
 2. Selenium is a good anti-oxidant.
 3. 'Free radicals' are formed by the effect of the sun's UV rays.
 (a) 1, 2 and 3 are true
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
15. Which of the following is/are true?
 (a) Compared to blue light, violet light is most easily scattered by atmospheric particles.
 (b) Compared to violet light, blue light is most easily scattered by atmospheric particles.
 (c) Both violet light & blue light are scattered at the same level of ease by atmospheric particles.
 (d) None of these
16. Which of the following adds/add carbon dioxide to the carbon cycle on the planet Earth? 1. Volcanic action 2. Respiration 3. Photosynthesis 4. Decay of organic matter
 (a) 1 and 3 only
 (b) 2 only
 (c) 1, 2 and 4 only
 (d) 1, 2, 3 and 4
17. Which of the following states/UTs has the largest number of Protected Areas in the country?
 (a) Andaman and Nicobar Islands
 (b) Madhya Pradesh
 (c) Himachal Pradesh
 (d) Kerala
18. Which one of the following compiles Global Energy Architecture Performance Index Report?
 (a) TERI
 (b) UNDP
 (c) WTO
 (d) WEF

19. Consider the following statements.
 1. Sulphur Di Oxide is released from oil refineries and ore smelters.
 2. Reddish brown air is caused by Oxides of Nitrogen.
 Which of these statements is/are correct?
 (a) Only 1
 (b) 1 and 2
 (c) Only 2
 (d) Neither (1) nor (2)
20. World Wide Fund for Nature (WWF) is an
 (a) UN body
 (b) Intergovernmental Organization
 (c) International NGO
 (d) Transnational Environmental Group
21. Consider the following.
 1. Shorter the food chain, greater is the amount of energy available at the top.
 2. The biomass in autotrophs like algae, green flagellates, green plants etc. is the maximum.
 Which of these is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 & 2
 (d) Neither 1 Nor 2
22. Consider the following.
 1. Earth is an open system with respect to energy.
 2. Ocean floor in very deep areas is an example for detritus food chain.
 Which of these is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 & 2
 (d) Neither 1 Nor 2
23. India's globally accepted national 'hot spots' are in the forests of the
 (a) North-East
 (b) Western Ghats
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
24. 1. It is a group of the world's major and emerging funders of global environmental change research.
 2. Ministry of Earth Sciences (MoES) represents India as a member at the forum.
 Which of the statements given above is/are correct with reference to 'Belmont Forum'?
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
25. In Stage 1 of Demographic transition model a country witnesses
 (1) High birth rate (2) High death rate
 (a) Only (1)
 (b) Only (2)
 (c) Both (1) & (2)
 (d) Neither (1) Nor (2)
26. Consider the following about the Bonn Convention on the Conservation of Migratory Species:
 1. India is not signatory of convention.
 2. It aims to conserve terrestrial, marine and avian migratory Species throughout their range
 3. It is an intergovernmental treaty, concluded under the aegis of the United Nations.
 (a) 1, 2 and 4
 (b) 2 only
 (c) 2 and 3 only
 (d) 1 and 4 only
27. Consider the following.
 1. El Niño does not occur every year.
 2. The Southern Oscillation is a see-saw shift in surface air pressure between the eastern and western halves of the Pacific.
 3. El Niño and the Southern Oscillation are parts of the same event.
 Which of these is/are true?
 (a) Only 1

- (b) Only 2
(c) 1 & 3
(d) 1, 2 & 3
28. Consider the following statements regarding smog :
1. Smog consists of VOCs.
 2. Smog is formed by reaction of sulphur oxides with nitrogen oxides in the presence of sunlight.
 3. Heavy smog results in decrease in natural vitamin D production leading to rise in cases of Rickets.
- Which of the statements given above is/are correct?.
- (a) 2 only
(b) 2 and 3 only
(c) 1 and 3 only
(d) 1, 2 and 3
29. Brent Crude is a major trading classification of sweet light crude oil that serves as a major benchmark price for purchases of oil worldwide. Consider the following statements w.r.t. Brent Crude.
1. It has low density.
 2. It has low sulfur content.
 3. It is extracted from the North Sea.
- Which of these statements are correct?
- (a) 1 and 2
(b) 1 and 3
(c) 2 and 3
(d) 1, 2 and 3
30. 1. Neutrinos are the second most widely occurring particle in the universe, only second to photons, the particle which makes up light.
2. A neutrino is about 17 billion times lighter than a neutron.
3. Due to weak interact of neutrinos, it is impossible to detect them.
- (a) 1, 2 and 3 are true
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
31. Consider the following statements regarding Protected Area Network(PAN) in India:
1. Protected areas are constituted and governed by the Environment (Protection) Act 1986.
 2. There are 4 categories of the Protected Areas viz, National Parks, Sanctuaries, Conservation Reserves and Community Reserves.
 3. The Eco-Sensitive zones around National Parks and Sanctuaries is a type of PAN under Community Reserves.
- Which of the statement(s) given above is/are correct?.
- (a) 1 and 2 only
(b) 2 and 3 only
(c) 2 only
(d) 1 and 3 only
32. DDT
- (a) Attacks the central nervous system.
 - (b) Accumulates in the fatty membrane surrounding nerve cells.
 - (c) Persists in the environment.
 - (d) Contains chlorine
- Which of the above statements are true?.
- (a) 1, 2, 3, 4
(b) 1, 2, 3
(c) 1, 4
(d) 1, 3, 4
33. Consider the following.
1. The tropical rainforest is a hot, moist biome found near Earth's equator.
 2. Tropical rainforests contain the least biodiversity in the world.
- Which of these is/are true?.
- (a) Only 1
(b) Only 2
(c) Both 1 & 2
(d) Neither 1 Nor 2

34. Which among the following is/are true?
 (a) Geographical indications (GI) registry is one type of quasi-judicial body.
 (b) As per Election commission's model code of conduct giving new GI-registration is to be paused during elections.
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
35. Consider the following statements regarding Environment Impact Assessment (EIA).
 1. EIA is an important management tool for ensuring optimal use of natural resources for sustainable development.
 2. EIA is mandatory for all developmental activities involving investment more than Rs.50 crore.
 3. EIA is established under the provisions of Wildlife (protection) Act 1972.
 Which of the statement(s) given above is/are correct?
 (a) 2 only
 (b) 1 and 2 only
 (c) 2 and 3 only
 (d) 1, 2 and 3
36. 1. In the summers Great and Little Rann of Kutch are similar to a desert landscape.
 2. The Great and Little Rann of Kutch gets converted to salt marshes during the monsoons.
 3. The Great Rann is the only known breeding colony of the Greater and Lesser Flamingos in India.
 Choose the incorrect statement/(s) using the codes below.
 (a) 2 and 3 only
 (b) 1 and 2 only
 (c) 1, 2 and 3
 (d) None of these
37. 1. Carbon-di-oxide is much less toxic than Carbon Monoxide.
2. Atmospheric oxidation of methane gas can produce CO.
 (a) Only 1 is true.
 (b) Only 2 is true.
 (c) 1 & 2 are true
 (d) Neither 1 nor 2 is true
38. "It is a rare tree dwelling mammal found in the deciduous broad leaf and coniferous forests of the Eastern Himalayas. The species has been extensively hunted for its pelt - used in traditional hats and clothing across the border in China. It is a Schedule - I animal, according to wildlife (Protection) act, 1972 and is also the State animal of Sikkim.". The above passage best describes
 (a) Snow Leopard
 (b) Red Panda
 (c) Himalayan Black Bear
 (d) Black Panda
39. Consider the following statements about 'Ecologically Sensitive Areas'.
 1) 'Ecologically Sensitive Areas' are areas under human use.
 2) An ecologically sensitive area is an area whose ecological balance, once disturbed, is very hard to restore.
 (a) Only 1 is correct
 (b) 1 and 2 are correct
 (c) Only 2 is correct
 (d) Neither 1 nor 2 is correct
40. Which of the following is/are true w.r.t effect of La Nina on Indian Climate?
 (a) La Nina represents the warming trend closer to Indian subcontinent.
 (b) It promotes storminess, cloud-building and rains over the region.
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
41. Which one of the following organisms can act as

- biofertilizer for rice crop?**
- (a) Blue green algae
 (b) Rhizobium
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
42. **Which is/are incorrect?**
- (a) The carbon cycle is unusual among nutrient cycles because it need not involve decomposers.
 (b) Photosynthesis and respiration are approximately balanced in terms of CO₂ usage in carbon cycle.
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
43. **Consider the following sentences about Biodiversity Heritage Sites (BHS):**
1. These are areas of unique, ecologically fragile ecosystems with rich biodiversity.
 2. State Governments, in consultation with the local bodies, may notify these sites.
 3. These Sites must be covered under Protected Area network under the Wildlife Protection Act 1972.
- (a) 1 and 2 only
 (b) 1 and 3 only
 (c) 2 and 3 only
 (d) 1, 2 and 3
44. **Tiger census is carried out by**
- (a) National Board for Wildlife.
 (b) National Bio Diversity Authority
 (c) National Tiger Conservation Authority
 (d) Jointly by (a) & (c)
45. **Caramel colouring chemical added to colas that is a potent carcinogen**
- (a) 2,4 D
 (b) Poly Urethane
 (c) Bisphenol
 (d) 4-MEI
46. **According to Demographic transition model India is in**
- (a) Stage 1
 (b) Stage 2
 (c) Stage 3
 (d) Stage 4
47. **1. Agaricus
 2. Nostoc
 3. Spirogyra
 Which of the above is/are used as biofertilizer?.**
- (a) 1 and 2
 (b) 2 only
 (c) 2 and 3
 (d) 1 only
48. **Besides Greenhouse effect, high amount of Carbon Dioxide in atmosphere also indirectly contributes to global warming because:**
- (a) It leads to formation of polar stratospheric clouds, thus assisting ozone depletion and making earth warmer due to ultraviolet radiation activity.
 (b) Excess carbon dioxide reduces the oxygen producing capacity of plants.
 (c) It reduces the evapo-transpiration in land plants.
 (d) A high amount of Carbon dioxide increases the temperature of oceans.
49. **The National Green Tribunal adjudicates on the matters coming under which of the following acts.**
1. The Public Liability Insurance Act 1991.
 2. The Environment (Protection) Act 1986.
 3. The Biological Diversity Act 2002.
- (a) 2 and 3 only
 (b) 1 and 2 only
 (c) 1 and 3 only
 (d) 1, 2 and 3
50. **Which is/are incorrect?**
- (a) The phosphorus cycle unlike those of carbon and nitrogen lacks an atmospheric component.
 (b) Denitrification and nitrogen fixation together constitute the mechanism for returning nitrogen from

the oceans to the land.

(c) Both (a) and (b)

(d) Neither (a) nor (b)

51. Consider the following statements.

1. The Keoladev Bird Sanctuary of Rajasthan is the world's biggest sanctuary where almost 2.5 lakh birds are found.
2. Great Indian Bustard (Ghorad) is the heaviest bird of India.

(a) Only 1 is correct

(b) 1 and 2 are correct

(c) Only 2 is correct

(d) Neither 1 nor 2 is correct

52. Which of the following parameters form the criteria for declaring a region as a biodiversity hot spot?

1. Faunal species diversity
2. Degree of loss of original habitat
3. Conservation status of endemic species

(a) 1 and 2 only

(b) 1 and 3 only

(c) 2 only

(d) 1, 2 and 3

53. The reasons for ozone depletion by polar stratospheric clouds

1. They convert free radicals of halogens to oxide which then reacts with ozone causing its depletion.
2. They remove gaseous nitric acid which reacts with oxides of halogens.

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

54. Which of the following is/are true?.

(a) Ozone molecules absorb ultraviolet sunlight creating heat energy that warms the stratosphere.

(b) Very little weather occurs in the stratosphere.

(c) Both (a) & (b)

(d) Neither (a) nor (b)

55. Which of the following state is the abode of Siroy Lily (*Lilium macklineae*), the flower which is not found elsewhere in the world?

(a) Himachal Pradesh

(b) Assam

(c) Manipur

(d) Tamilnadu

56. About 80 per cent of the coal deposits in India is of

(a) lignite type

(b) bituminous type

(c) anthracite type

(d) peat type

57. 1. The main source of atmospheric free oxygen is photosynthesis.

2. The largest reservoir of Earth's oxygen is Ocean in the form of oxides.

(a) Only 1 is true

(b) Only 2 is true

(c) Both 1 and 2 are true

(d) Neither 1 nor 2 is true

58. Consider the following statements:

1. Methane is released in swamps and bogs and through the roots of some plants.

2. Anthropogenic sources have increased methane emissions through increased use of natural gas and through mining.

3. Black carbon is aerosol, not a gas, and it also contributes to warming of the atmosphere.

Which of these statements is/are correct?

(a) Only 3

(b) 1 and 2

(c) 1, 2 and 3

(d) Except 3 all are true

59. Which of the following shows the correct increasing order of concentration in the atmosphere?.

- (a) Helium, Methane, Hydrogen, Nitrous Oxide, Ozone
 (b) Ozone, Helium, Methane, Hydrogen, Nitrous Oxide
 (c) Ozone, Helium, Hydrogen, Nitrous Oxide, Methane
 (d) Hydrogen, Helium, Methane, Ozone, Nitrous Oxide
60. Preventive checks according to Thomas Malthus is/are
 1. postponement of marriage to late ages
 2. abstaining from procreation
 3. homosexuality
 (a) 1 and 2
 (b) 1 and 3
 (c) 2 and 3
 (d) 1, 2 and 3
61. Which of the following UV radiation is/are completely absorbed before reaching the Earth's surface?
 1. UV-A 2. UV-B 3. UV-C
 (a) 1 only
 (b) 1 and 2 only
 (c) 2 and 3 only
 (d) 3 only
62. What is meant by 'Pesticide Treadmill'?
 1. It means increasing the doses of pesticides to prevent the resurgence of the earlier controlled pest.
 2. It yields counterproductive results as repeated spraying increase the vulnerabilities of the farming communities to debt and poor health.
 3. It involves target spraying on pests so that no other insects which are harmless or beneficial to the crops get killed.
 Which of the statement(s) given above is/are correct?
 (a) 1 and 3 only
 (b) 3 only
 (c) 1 and 2 only
 (d) 1, 2 and 3
63. Which of the following are responsible for the formation of coal deposits?
 (a) Ferns
 (b) Cryophytes
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
64. Niche describes
 (a) natural place of growth or occurrence of a species.
 (b) range of environments where an organism lives.
 (c) how the organism relates to its physical and biological environment.
 (d) Both (a) & (b)
65. The night temperature will be minimum on a
 (a) Cloudy day but clear night
 (b) Clear day but cloudy night
 (c) Cloudy day and cloudy night
 (d) Clear day and clear night
66. Azolla is used as Bio-Fertiliser because
 (a) It contains a cyanobacterium called Anabaena.
 (b) It can produce Ammonium Nitrate.
 (c) It can fix nitrogen in the atmosphere.
 (d) Both (b) & (c)
67. Which of the following increase the soil fertility by fixing atmospheric nitrogen?
 I. Oscillatoria
 II. Anabena
 III. Nostoc
 IV. Azetobactor
 (a) II, III & IV
 (b) I, II, & IV
 (c) I, III & IV
 (d) I, II, III & IV
68. What is Pteris Vittata?
 (a) It is plant that is a source of bio-diesel.
 (b) It is an herb that is being used to treat oil spills.
 (c) It is a fern that can be used to purify arsenic

- containing water.
 (d) It is a disease in fish caused by algal decay.
69. **Himalayan Griffon is a / an**
 (a) bird
 (b) mammal
 (c) amphibian
 (d) tree
70. **Which is/are incorrect?**
 (a) Ground-level ozone is not directly emitted by any source.
 (b) Warm and stagnant air increases the formation of ozone.
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
71. **Consider the following statements regarding Ecosystem For Life (E4L) project.**
 1. It is an initiative under the International Union for Conservation of Nature (IUCN) India.
 2. It is multi-stakeholder dialogue process to promote better understanding of the management of natural resources in Bangladesh and India.
 3. It aims at improving understanding about the habitats for conservation of flagship species.
Which of the above statements is/are correct?.
 (a) 1 and 3 only
 (b) 2 only
 (c) 1 and 2 only
 (d) 1, 2 and 3
72. **The amount of organic matter produced by green plants from solar energy in a given area during a given period of time is known as**
 (a) Primary productivity
 (b) Net Primary productivity
 (c) Gross Primary productivity
 (d) Trophical Energy Efficiency
73. **Which of the following is/are used as Food Preservatives?.**
 1. Sodium Benzoate
 2. Citric Acid
 3. Vinegar
 (a) Only 3
 (b) 1, 2 and 3
 (c) 2 and 3
 (d) 1 and 3
74. **"Dirty Dozen" to refer to Persistent Organic Pollutants was coined by**
 (a) IUCN
 (b) WWF
 (c) UNEP
 (d) GEF
75. **Consider the following.**
 1. Carbon monoxide is a persistent pollutant.
 2. Nitrogen oxides are involved in the production of ozone.
Which of these is/are true?.
 (a) Only 1
 (b) Only 2
 (c) Both 1 & 2
 (d) Neither 1 Nor 2
76. **Kennedy – heaviside or D layer of atmosphere is primarily made of**
 (a) Gases
 (b) Ions
 (c) Magnetic fields
 (d) Free radicals
77. **Other than poaching, the reasons for the decline in the population of Sangai Deer are**
 1. Threat to their habitat because of climate change.
 2. Continuous inundation and flooding of their habitat by high waters due to construction of hydroelectric power project.
 3. Increasing spread of invasive para grass.
 (a) 1 and 2 only
 (b) 2 only
 (c) 1 and 3 only
 (d) 1, 2 and 3

78. The recent study by the Centre for Science and Environment tested 36 local samples of leading brands of breads and buns and found 32 of the to be containing
- Potassium bromate
 - Potassium chromate
 - Potassium chloroate
 - All the above
79. Photochemical smog levels are more in summer. Why?.
- Solar radiation is strongest.
 - Temperature inversion & Weak winds
 - Both (a) and (b)
 - Neither (a) nor (b)
80. Nitrous oxide (N_2O) a greenhouse gas is produced by
- Fertilizer use
 - Fossil fuel combustion
 - Enteric fermentation
 - Forage legumes on grazed lands
- 1 & 2
 - 1, 2 & 3
 - 1, 2 & 4
 - 1, 3 & 4
81. Which of the following contributes the maximum to the greenhouse effect?.
- Carbon Dioxide
 - Water Vapour
 - Methane
 - Nitrous Oxide
82. Which is/are incorrect?
- Only about 10% of the energy fixed in the food is fixed in the body of the animal that eats that food.
 - Pyramids of biomass can be inverted as in the oceans where a given mass of phytoplankton at certain times in the year support a larger mass of zooplankton.
- Both (a) and (b)
 - Neither (a) nor (b)
83. Biodiversity is highest in
- Alpine Meadows
 - Coniferous Forests
 - Deciduous Monsoon Forests
 - Wet Evergreen Equatorial Forests
84. Red Data book is published by
- UNEP
 - IUCN
 - WWF
 - GEP
85. Which one of the following organisms is likely to show the highest concentration of DDT, once it has been introduced into the ecosystem?.
- Grasshopper
 - Toad
 - Snake
 - Cattle
86. Consider the following.
- Most aerosols are found in the lower troposphere.
 - Aerosols have a cooling effect on Earth's climate.
- Which of these is/are true?.
- Only 1
 - Only 2
 - Both 1 & 2
 - Neither 1 Nor 2
87. Identify the correct statement (s) about Refuse Derived Fuel (RDF).
- It is a processed form of Municipal Solid Waste.
 - It can be a substitute to coal energy.
 - Neither (a) nor (b) is true
 - Both (a) & (b)
88. Which of the following activities will contribute

to the formation of Acid rain?.

1. Volcanic Eruption
2. Decaying of vegetation
3. Manufacturing of paper
4. Decontamination of swimming pool

- (a) 1, 2 and 3 only
 (b) 2, 3 and 4 only
 (c) 1, 3, and 4 only
 (d) 1, 2, 3 and 4

89. Consider the following statements.

1. Bioaccumulation occurs when an organism absorbs a toxic substance from all sources at a rate greater than that at which the substance is lost.
2. Bio-concentration occurs when an organism absorbs a toxic substance from only water at a rate greater than that at which the substance is lost.

Which of the statements given above is/are correct?.

- (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2

90. Lichens are useful bioindicators for

- (a) Sulfur-di-oxide pollution
- (b) Carbon-di-oxide pollution
- (c) Nitrogen-di-oxide pollution
- (d) Lead oxide pollution

91. Which of the following is/are protected areas are declared under Wildlife Protection Act 1972?.

1. National Parks.
2. Biosphere Reserves.
3. Tiger Reserves.

- (a) 1 and 3 only
 (b) 1 and 2 only
 (c) 2 and 3 only
 (d) 1 only

92. 1. A thicker layer of ozone would be harmful.

2. Radio Transmission is possible due to Mesosphere.

3. 1° C is higher than 1° F by a factor of 1.8.

4. The atmosphere reaches its coldest temperature of around -90°C in the mesosphere.

Choose the incorrect statement/(s) using the codes below

- (a) 3 and 4 Only
 (b) 2 and 3 Only
 (c) 1 and 2 Only
 (d) 2 Only

93. Which one of the following was used as a chemical weapon in the First World War?.

- (a) Carbon monoxide
- (b) Hydrogen cyanide
- (c) Mustard gas
- (d) Water gas

94. How many "Sun Shine" Countries are there?.

- (a) 107
 (b) 87
 (c) 97
 (d) 67

95. Green house effect is the heating up of the earth's atmosphere which is due to

- (a) The UV rays
- (b) The Infra red rays
- (c) Both (a) & (b)
- (d) Neither (a) nor (b)

96. Which of the following is the use of "ROHYTAM"?

- (a) Capping and decapping bottles
- (b) Handling of nuclear power plant emergencies
- (c) Mobile Scanner
- (d) Irradiation in FBTR

97. The greatest diversity of animal and plant species occurs _____ in

- (a) temperate deciduous forests
- (b) tropical moist forests

- (c) heavily polluted rivers
(d) deserts and savannas
98. The following activities could be possibly used to reduce global warming.
1. Using giant mirrors in space
 2. Firing large amount of aerosols in the atmosphere
 3. Use of bio-char
 4. Increasing the amount of iron in the ocean.
- (a) 1 and 2 only
(b) 1, 2, 3 and 4
(c) 3 and 4 only
(d) 1, 3 and 4 only
99. Which of the following minerals is also called brown diamond ?
- (a) Iron
(b) Mangnese
(c) Mica
(d) Lignite
100. Countries that participate in the Clean Ganga Mission are
1. Israel 2. Australia 3. Japan 4. Germany
- (a) 1 and 3
(b) 2 and 3
(c) 1, 2 and 3
(d) 1, 2, 3 and 4

Crackingias.com 9884554654 Raja Sir's

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

SOCIOLOGY
BEST STUDY MATERIALS
&
CLASS @ CHENNAI

I attended Sociology classes @ Cracking IAS academy, Chennai. Pradeep Kumar, IAS, Tamilnadu Cadre.
371 - MAXIMUM MARKS ACHEIVED IN SOCIOLOGY

402 Selections since 2005

1. Tribals are
1. Nagas 2. Kukis 3. Meiteis 4. Reangs
(a) 1 & 2
(b) 1, 2 & 3
(c) 1, 2 & 4
(d) 1, 3 & 4
2. The ARYA project aims at
(a) Sending mission to study sun by ISRO
(b) Sending mission to study asteroids by ISRO
(c) Sending mission to study comets by ISRO
(d) None of these
3. The real intention of the British to include the princely states in the Federal Union proposed by the India Act of 1935 was to
(a) exercise more and direct political and administrative control over the princely states
(b) involve the princes actively in the administration of the colony
(c) finally effect the complete political and administrative take-over of all the princely states by the British
(d) use the princes to counter-balance the anti-imperialist doctrines of the nationalist leaders
4. Who among the following had an influence on Dadabhai Naoroji to enunciate his Drain Theory in his famous book entitled 'Poverty and Un-British Rule in India'?.
(a) A.O.Hume
(b) Adam Smith
(c) R.C.Dutt
(d) Keynes
5. 1. In 1890 Kadambini Ganguli, the first women graduate of Calcutta University, addressed the congress session.
2. The Indian National Congress adopted a resolution to criticize the drain of wealth in its annual session at Calcutta in 1896.
Which of the statements given above is/are correct?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
6. Consider the following statements about the Wavell Plan of 1945:
1. The executive council could nominate members from amongst the nationalist leaders.
2. The executive council could have equal number of Hindu and Muslim representatives.
3. The veto power of the Governor-General was to be abolished.
4. The subject of foreign affairs was to be transferred from the Governor-General to an Indian member of the council.
Which one of the following alternatives is correct?
(a) 1, 2 and 4 are correct
(b) 1, 2 and 3 are correct
(c) 2 and 3 are correct
(d) 1 and 4 are correct
7. Who of the following took the burning of the foreign clothes during the Non-Co-operation Movement as 'insensate waste'?
(a) Muhammed Ali Jinnah
(b) Subash Chandra Bose
(c) Rabindra Nath Tagore
(d) V.D.Savarkar
8. Standup India was launched to support entrepreneurship among
1. Women 2. SCs 3. STs
(a) 1 and 2 only
(b) 2 only
(c) 1 and 3 only
(d) 1, 2 and 3
9. Which of the following is/are true w.r.t. Soil Health Card Scheme?
1. Under this scheme 'Soil card' to farmers which will carry crop-wise recommendations of nutrients and fertilizers required for the individual farms.
2. Soil Health card (SHC) is a printed report card issued to farmers in once in two years.
3. Soil Health card indicates the status of soil

- in terms of 12 parameters.
- (a) 1 and 3 only
(b) 1 and 2 only
(c) 2 and 3 only
(d) 1 only
10. **The Assertive Nationalists advocated**
1. National Education
2. Passive Resistance
(a) Only 2
(b) Only 1
(c) 1 and 2
(d) Neither 1 nor 2
11. **Which was the correct expression used in the "objective resolution"?**
(a) Sovereign Independent Republic
(b) Sovereign Secular Republic
(c) Sovereign Democratic Republic
(d) Sovereign Secular Democratic Republic
12. **Which one among the following is responsible for the expansion of water in the ocean?**
(a) Carbon monoxide
(b) Carbon dioxide
(c) Sulphur mono oxide
(d) Both (a) & (b)
13. **In the Constitution of India, the term 'Federal'**
(a) figures in the Preamble
(b) figures in Part III of the Constitution
(c) figures in Article 368
(d) does not figure anywhere
14. **Who among the following said "My boy, no, you are an Indian first and then a Muslim"?**
(a) Jawaharlal Nehru
(b) Mohammad Iqbal
(c) Syed Ahmad Khan
(d) Mohammad Ali Jinnah
15. **The radical wing of the Congress Party with Jawaharlal Nehru as one of its main leaders, founded the 'Independence for India League' in opposition to**
(a) the Gandhi-Irwin Pact
(b) the Home Rule Movement
(c) the Nehru Report
(d) the Montford reforms
16. **Water gas contains**
(a) Carbon monoxide and Hydrogen
(b) Carbon dioxide and Hydrogen
(c) Carbon dioxide and Methane
(d) Carbon monoxide and Methane
17. **1. Nitrogen is present in abundance in gaseous form in the air.
2. Plants cannot absorb nitrogen in gaseous form in the air.
Which of the above statements is/are false?**
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
18. **The most abundant gas released from volcanic eruptions is**
(a) Water Vapor
(b) Nitrogen
(c) Oxygen
(d) Sulphur di oxide
19. **"Shyam Narayan Chouksey vs Union Of India" case recently flashed most in news w.r.t.**
(a) Fundamental Duties
(b) Article 356
(c) Pardoning power of President
(d) Pardoning power of Governor
20. **1. Sambhar Salt lake has been designated as a Ramsar site.
2. Sambhar Salt lake is an Important Bird Area.
Which of these is/are true?**
(a) Only 1
(b) Only 2
(c) Both 1 & 2
(d) Neither 1 Nor 2
21. **Which of the statements given above is/are**

correct w.r.t. India "INX"?

1. It is India's first International Exchange.
 2. It is a wholly-owned subsidiary of the Bombay Stock Exchange (BSE).
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
22. The secession of a state from the Indian Union has been barred by
- (a) Constitution (16th Amendment) Act, 1963
 - (b) Constitution (22nd Amendment) Act, 1969
 - (c) Constitution (29th Amendment) Act, 1972
 - (d) Constitution (35th Amendment) Act, 1974
23. The first session of the Indian National Congress at Bombay was presided by
- (a) Alan Octavian Hume
 - (b) Pherozeshah Mehta
 - (c) Dadabhai Naoroji
 - (d) Womesh Chandra Banerjee
24. Under which of the following conditions, UPSC can serve the needs of a state?.
1. When requested by the President
 2. When requested by the Governor
 3. With the approval of Parliament
 4. With the approval of President
 5. With the approval of the concerned state legislature
- (a) 1 and 3
 - (b) 2 and 3
 - (c) 2 and 4
 - (d) 2 and 5
25. 1. The Nehru Report did not satisfy the communal parties such as the Hindu Mahasabha and Muslim League.
2. Gandhi favored Dominion Status as demanded by Nehru Report.
Which of the statements given above is/are true?.
- (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
26. The Conservative Secretary of State who was responsible for the appointment of the Simon Commission
- (a) Lord Birkenhead
 - (b) Lord Irwin
 - (c) Lord Reading
 - (d) Lord Montague
27. Which is/are correct?
- (a) India has one direct tax payer for every 16 voters.
 - (b) Recent Economic Survey said that India's ratio of tax-to-GDP is 5.4 percentage points below that of comparable countries.
 - (c) Both (a) and (b)
 - (d) Neither (a) nor (b)
28. Mission Fingerling is related to
- (a) Elementary Education
 - (b) Fisheries
 - (c) Protection of Endangered Sea Cow
 - (d) Child labour
29. The term "imperial preference" was applied to the
- (a) special privileges on British imports in India
 - (b) racial discrimination by the Britishers
 - (c) subordination of Indian interest to that of the British
 - (d) preference given to British political agents over Indian Princes
30. Which of the following are envisaged as being part of the Right against Exploitation in the Constitution of India?
1. Prohibition of traffic in human beings and forced labour.
 2. Abolition of untouchability.
 3. Protection of the interests of the minorities.
 4. Prohibition of employment of children in factories and mines.
- (a) 1, 3 & 4
 - (b) 1, 2, 3 & 4
 - (c) Only 1 & 4
 - (d) 1 & 3

31. **Solar Jet Fuel is composed of**
1. Sunlight 2. Carbon Di Oxide
3. Water 4. Hydrazine 5. Yellow Cake
Which of these is/are true?
(a) 1, 2, 3
(b) 1, 3, 5
(c) 1, 2, 4
(d) 1, 2, 3, 4
32. 1. Ammonia is released on Earth's surface due to agricultural processes.
2. Ammonia plays a role in formation of Aerosols.
Which of the statements given above is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
33. The correct chronological order in which the revolt of 1857 spread was
(a) Barrackpore, Meerut, Delhi, Lucknow, Kanpur
(b) Meerut, Delhi, Lucknow, Barrackpore, Kanpur
(c) Meerut, Delhi, Kanpur, Lucknow, Barrackpore
(d) None of these.
34. The constituents of drain of wealth according to Dadhabai Naoroji were
1. Foreign Banking. 2. Council Bills.
3. Interest on foreign capital.
(a) 1, 2, 3
(b) 1 & 2
(c) 2 & 3
(d) None of these.
35. Who set up the National planning Committee in 1938 in order to prepare a comprehensive report for the introduction of economic planning in the country?
(a) Tej Bahdaur Sapru
(b) Subhas Bose
(c) Jawaharlal Nehru
(d) Rajendra Prasad
36. (i) Glaciers cover about 10% of Earth's land surface.
(ii) Glaciers store about 75 percent of the world's freshwater.
Which of the above is / are true?
(a) Only (i)
(b) Only (ii)
(c) Both (i) and (ii)
(d) Neither (i) nor (ii)
37. Atmospheric brown clouds are mostly the result of (i) Biomass Burning
(ii) Fossil Fuel Consumption
Which of the above is / are true?
(a) Only (i)
(b) Only (ii)
(c) Both (i) and (ii)
(d) Neither (i) nor (ii)
38. Swarm Satellites have been launched by
(a) NASA
(b) ESA
(c) CERN
(d) ROSSCOM
39. 1. Urea has 46% nitrogen content
2. Though most crops use nitrate as source of nitrogen, A few crops such as Paddy prefer Ammonical form over nitrate.
3. Once nitrate reaches underground water, it is most difficult to remove.
4. Nitrate causes blue baby syndrome.
Choose the incorrect statement/(s) using the codes below
(a) 3 and 4 Only
(b) 2 and 3 Only
(c) 1 and 2 Only
(d) None of these
40. The Brahma Samaj movement received a great setback due to
1. Marriage of the eldest daughter of Keshab Chandra Sen.

2. Founding of Indian Reform Association.

Select the correct answer from the codes given below:-

- (a) Only 1
- (b) 1 & 2
- (c) Only 2
- (d) Neither 1 Nor 2

41. Which one of the following Fundamental Rights is guaranteed only to the citizens of India and not to the foreigners living in India?
- (a) Equality before law and equal protection of law
 - (b) Freedom of speech and expression
 - (c) Right to life and liberty
 - (d) Right to the freedom of religion
42. Which one of the following statements regarding the current status of the relationship between Fundamental Rights and Directive Principles is correct?
- (a) Directive Principles cannot get priority over Fundamental Rights in any case
 - (b) Directive Principles always get priority over Fundamental Rights
 - (c) Fundamental Rights always get priority over Directive Principles
 - (d) In some cases Directive Principles may get priority over Fundamental Rights
43. The 26th Amendment to the constitution
- (a) Repealed Articles 291 and 362
 - (b) Took away the privy purse granted to the Rulers of the erstwhile Indian States
 - (c) Both (a) & (b) are correct.
 - (d) Neither (a) nor (b) is correct
44. Who of the following set up a Swadesh Sevak Home in Vancouver?
- (a) G.D. Kumar
 - (b) V.D. Savarkar
 - (c) Shyamji Krishna Verma
 - (d) Taraknath Das
45. Which of the following is/are World Heritage Sites in India?
- (i) Kaziranga Wild Life Sanctuary
 - (ii) Rock Shelters of Bhimbetka
 - (iii) Sundarbans National Park
 - (iv) Padmanabhapuram Palace
- (a) (i), (ii) and (iii)
 - (b) (ii) and (iv)
 - (c) (i), (iii) and (iv)
 - (d) Only (ii)
46. Eilat virus infects
1. Insects 2. Human beings
- (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
47. Hindu Mela or National Mela founded by
- (a) Lala Lajpat Rai
 - (b) Nabagopal Mitra
 - (c) Lala Hardayal
 - (d) Vinayak Savarkar
48. Besides the Directive Principles of State Policy contained in Part IV, there are certain other directions addressed to the state in other parts of the constitution. Which of the following is/are not among them?
- (a) None of the below.
 - (b) Article 351
 - (c) Article 335
 - (d) Article 350 A
49. 1. A high concentration of DDT decreases the thickness and the strength of eggshells of many birds of prey.
2. DDT can become more concentrated as they move up a food chain in a process. Which of these statements is/are correct?
- (a) Only 1
 - (b) 1 and 2
 - (c) Only 2
 - (d) Neither (1) nor (2)
50. Uses of Carbon Tetra Chloride is/are

I. Dry Cleaning II. Fire Extinguisher**III. Fumigant.**

- (a) II & III
(b) I, II, & III
(c) I & II
(d) Only II

51. 1. Eco-Sensitive Zone is created to act as a buffer for further protection around Protected Areas such as National Parks and Wildlife sanctuaries.
2. Eco-Sensitive Zone is notified under Section 3 of the Wildlife Conservation Act, 1972.
Which of the statements given above is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
52. Jyotiba Phule popularized his ideas through
1. Dinbandhu 2. Dinmitra.
(a) Only 1
(b) 1 & 2
(c) Only 2
(d) Neither 1 Nor 2
53. London Indian Society to bring about a rapprochement between the British and Indians and to facilitate an exchange of views on subjects related to India was founded by
1. Dadabhai Naoroji
2. W.C. Bannerjee.
(a) 1 and 2
(b) Only 1
(c) Only 2
(d) Neither 1 nor 2
54. Who established the Swadesh Bandhab Samiti to promote the consumption of indigenous products?
(a) Ashwini Kumar Dutta
(b) Prafulla Chandra Ray
(c) Hans Lal
(d) Satish Chandra Mukherjee
55. At which of its session, did the congress officially accept the "Socialistic pattern of Society"?
(a) Bombay Session of 1953
(b) Avadi Session of 1955
(c) Calcutta Session of 1957
(d) Nagpur Session of 1959
56. The suggestion of transfer of two Central Governments, India and Pakistan, on the basis of grant of Dominion Status was given by
(a) Jawahar Lal Nehru and Sardar Patel
(b) Gandhiji and Jawahar Lal Nehru
(c) Lord Mountbatten and Jawaharlal Nehru
(d) V. P. Menon and Sardar Patel
57. 1. Cotton is the only genetically-modified seed that's legally allowed in India.
2. The whitefly outbreak has intensified a debate over GM crops in Punjab & Haryana.
Which of the statements given above is/are correct?
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
58. Which of the following is/are correct w.r.t. Mithila Painting?
1. It is done with fingers & Matchsticks.
2. Mithila Museum is in Thailand.
3. It has been accorded the Geographical Indication status.
(a) 1 and 3 only
(b) 1 and 2 only
(c) 2 and 3 only
(d) 1 only
59. Which of the statements given above is/are correct w.r.t. Concentrating Solar Power technology?
1. It does not use photovoltaic cells to generate power.
2. In this heat energy is converted to electricity.

3. It produces electricity in the form of alternating current.
 (a) 1 and 2 only
 (b) 1, 2 and 3
 (c) 2 and 3 only
 (d) 1 and 3 only
60. The first political association to be started in India was
 (a) Landholders Society at Calcutta
 (b) Landholders Society at Bombay
 (c) Landholders Society at Chennai
 (d) Landholders Society at Pune
61. Match List I with List II
- | | |
|-----------------------------------|-----------------------------|
| List I | List II |
| Steering Committee | 1. Sardar Vallabhbhai Patel |
| Fundamental Rights Sub-committee | 2. Dr Rajendra Prasad |
| Union Constitution Committee | 3. J.B. Kripalani |
| Provincial Constitution Committee | 4. Jawaharlal Nehru |
- (a) 2341
 (b) 1432
 (c) 2431
 (d) 1342
62. Which of the following release dioxins?
 1) Burning cigarettes, plastics, coal, etc.
 2) Incomplete burning of petrol
 3) Waste from Industries
 (a) 1 & 2
 (b) 1, 2 & 3
 (c) None of these
 (d) 2 & 3
63. Which of the following is considered a variable gas in the earth's atmosphere?
 (a) Water Vapor
 (b) Nitrogen
 (c) Oxygen
 (d) Argon
64. 1. Lord Canning enacted the widow Remarriage Act, drafted by Lord Dalhousie in 1856.
 2. By the Charter Act of 1813, Christian missionaries were permitted to enter the Company's territories in India to propagate their religion and spread Western education.
 (a) Only 2 is true
 (b) Only 1 is true
 (c) 1 and 2 are false
 (d) 1 and 2 are true
65. Bengal Chemical Swadeshi stores was set up by
 (a) Acharya Prafulla Chandra Roy
 (b) Rajani Kant Sen
 (c) Lal Kishan Lal
 (d) Mukunda Das
66. Who among the following were extremists?
 1. Rajnarain Bose
 2. Vishnu Shastri Chiplunkar
 3. Nabagopal Mitra
 4. Bankim Chandra Chatterjee.
 (a) 1,2,3 and 4
 (b) 1, 2 and 3
 (c) 2 and 4
 (d) 1, 3 and 4
67. Who was the first Indian to contest the election for the British House of Commons although he lost the election?
 (a) Dadabhai Naoroji
 (b) Feroze Shah Mehta
 (c) W.C. Banerjee
 (d) Madan Mohan Malaviya
68. Seriously questioning the validity of party system, the idea of 'Party less Democracy' was projected by
 (a) Jawaharlal Nehru
 (b) Suharto
 (c) Mao Tse-Tung
 (d) Jai Prakash Narayan
69. Who prepared a draft Constitution in October 1947 which contained 243 Articles and 13 Schedules?
 (a) K.M.Munshi

- (b) Jawaharlal Nehru
(c) Sir B.N. Rau
(d) Rajendra Prasad
70. What is the time frame for Speaker to take decision regarding disqualification w.r.t. 52nd Amendment Act?
(a) 6 months
(b) Two weeks
(c) 3 Months
(d) No time frame
71. Which of the following is/are components of NFSM? 1. Rice 2. Wheat 3. Oil seeds
(a) 1 and 3 only
(b) 1 and 2 only
(c) 1, 2 and 3
(d) 1 only
72. In pursuance of the directions of the Supreme Court in the Mandal Commission case, the Parliament enacted the National Commission for Backward Classes Act, 1993. Which one of the following is not a function of the NCBC?
(a) To examine requests for inclusion of a class of citizens as a backward class
(b) To hear complaints of under-inclusion of any backward class
(c) To hear complaints of over-inclusion of any backward class
(d) To identify the creamy layer among the backward classes
73. The Supreme Court of India is different from its counterpart in the U.S.A.
(a) in its role as the guardian of the Constitution
(b) in its advisory role
(c) in its role as the supreme authority in the judicial field in the country
(d) in its writ jurisdiction
74. Hindu code bill consisted of
1. Hindu Marriage Act
2. Hindu Succession Act
3. Hindu Minority and Guardianship Act
4. Hindu Adoptions and Maintenance Act.
- Select the correct answer using the code given below:
(a) 1,2,3 and 4
(b) 1, 2 and 3
(c) 2 and 4
(d) 1, 3 and 4
75. Which one of the following revolts was made famous by Bankim Chandra Chatterjee in his novel Anand Math?
(a) Bhil uprising
(b) Dinapur uprising
(c) Birbhum rebellion
(d) Sanyasi rebellion
76. Which of the following statements regarding the residuary powers in the Constitution of India are correct?
1. Residuary powers have been given to the Union Parliament.
2. In the matter of residuary powers the Constitution of India follows the Constitution of Australia.
3. The final authority to decide whether a particular matter falls under the residuary power or not is Parliament.
4. The Government of India Act 1935 placed residuary powers in the hands of the Governor General.
Select the correct answer from the codes given below:
(a) 1, 2 and 3
(b) 2 and 3
(c) 1 and 4
(d) 3 and 4
77. 1. The HIPPO panel recommended mixing of Biodiesel with Ethanol by 5%.
2. National Policy on Biofuels aims to bring bio-fuels under the ambit of "Declared Goods".
(a) Only 1 is true
(b) Only 2 is true
(c) Both 1 and 2 are true
(d) Neither 1 nor 2 is true

78. **Acute Encephalitis Syndrome is caused by**
 (a) Bacteria
 (b) Virus
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
79. **Indian Association was founded in July 1876 by**
 1. Anand Mohan Bose
 2. Surendra Nath Banerjee
 (a) Only 2
 (b) Only 1
 (c) 1 and 2
 (d) Neither 1 nor 2
80. **In which one of the following cases, the attempt to confer a primacy upon the Directive Principles of State policy as against the Fundamental Rights was foiled by the majority of the Supreme Court?**
 (a) Indra Sawhney vs. Union of India
 (b) Shankari Prasad vs. Union of India
 (c) Minerva Mills vs. Union of India
 (d) Bennett Coleman vs. Union of India
81. **Consider the following statements Biennial Update Reports (BURs).**
 1. BURs are to be submitted by Annex I Parties to the United Nations Framework Convention.
 2. BUR contains national GHG inventory of a country.
 3. BURs are subjected to an international process known as International Consultation and Analysis (ICA).
 (a) 1 is true.
 (b) 1, 2 and 3 are true.
 (c) 2 and 3 are true.
 (d) 1 and 3 are true.
82. **Which is/are correct about One China Policy?**
 (a) It affirms Chinese sovereignty over Taiwan.
 (b) Countries seeking diplomatic relations with People's Republic of China (PRC, Mainland China) must break official relations with the Republic of China (ROC, Taiwan) and vice versa.
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
83. **How many Mega Food Parks are functional as of now?**
 (a) 15
 (b) 8
 (c) 7
 (d) 28
84. **Under which of the following circumstances can the President of India exercise discretionary power?**
 1. When there is dispute between the Prime Minister and Cabinet Minister.
 2. When there is no majority party in the Lok Sabha and he has to choose a Prime Minister
 3. When the ruling party loses its majority in the Lok Sabha.
 4. When the President decides to refer the advice of the Union Cabinet back for reconsideration.
 Choose the correct answer from the codes give below :
 (a) 1 only
 (b) 1 and 2
 (c) 2, 3 and 4
 (d) 2 and 4
85. **Which one of the following demands of the Moderates was/were accepted in the Morley-Minto reforms?**
 (1) Dominion status for India
 (2) Beginning of responsible Government
 (3) Increase in the size of the Councils
 (a) Only 3
 (b) 2 and 3
 (c) 1 and 3
 (d) None of these
86. **Who wrote a book 'Joseph Mazzini-Biography and Politics'?**
 (a) Lala Lajpat Rai
 (b) Nabagopal Mitra
 (c) Lala Hardayal
 (d) Vinayak Savarkar

87. 1. M.G. Ranade was a mentor to Gopal Krishna Gokhale.
2. M.G. Ranade founded the Poona Sarvajanik Sabha.
(a) Only 1 is true.
(b) Only 2 is true.
(c) 1 & 2 are true
(d) Neither 1 nor 2 is true
88. The lady representative of India at the Second Round Table Conference
(a) Vijayalakshmi Pandit
(b) Sarojini Naidu
(c) Aruna Asaf Ali
(d) Sucheta Hriplani
89. A tool named IESS 2047 was recently launched by India for
(a) Indian Ecological Footprint
(b) Energy Security
(c) Radio Collaring
(d) Aadhaar atomization
90. Financial Data Management Centre has been mooted by
(a) Deepak Shah committee
(b) Ratan Wala committee
(c) Ajay Tyagi committee
(d) Raghuram Rajan committee
91. Bharat Stage prescribes emission norms for which of the following vehicular exhausts in India?
1. Lead 2. CO₂ 3. NO_x 4. Ozone
(a) 2 and 3 only
(b) 1 and 2 only
(c) 1, 2 and 3 only
(d) 1, 3 and 4 only
92. Which of the following statements about the right to freedom of religion is NOT correct?
(a) The State can regulate the economic, financial, political or other secular activities which may be associated with religious practices.
(b) Restrictions can be imposed on the right to freedom of religion on grounds of maintenance of public order, morality or health.
(c) Every religious denomination has the right to establish and maintain institutions for religious and charitable purposes.
(d) Funds appropriated by a religious denomination for promoting and maintaining a particular religion are taxable.
93. Who launched 'wang-bang' Movement and with what objective?
(a) Surendra Nath Banerjee to oppose Partition of Bengal.
(b) Surendra Nath Banerjee to request British for Parliamentary Elections.
(c) Dadabhai Naoroji to declared that the goal of congress was attainment of 'swaraj'.
(d) Dadabhai Naoroji to declared that the drain of wealth must be stopped.
94. Who set up the National planning Committee in 1938 in order to prepare a comprehensive report for the introduction of economic planning in the country?
(a) Tej Bahdaur Sapru
(b) Subhas Bose
(c) Jawaharlal Nehru
(d) Rajendra Prasad
95. 1. In extraordinary circumstances, the normal distribution of power between the Centre and the states is either suspended or the powers of the Union Parliament are extended over State subjects.
2. The Indian Constitution vests the residuary power in the Union parliament and the final decision as to whether a particular matter falls under the residuary power or not is that of the Supreme Court.
3. The Union Government has the power to give directions to the state government to insure due compliance with Union laws.
4. If the Legislatures of two or more states so resolve, Parliament can make laws with respect to any matters included in the state list relating to those states.

Which of these describe the nature of Indian Federalism?

- (a) 1, 2, 3, and 4
- (b) 1, 2 and 3
- (c) 2 and 4
- (d) 1 and 3

96. 1. Earth's surface is a radiator of energy in the long-wave band.
2. Ground is heated by sunlight.

- (a) 1 and 2 are true.
- (b) 2 reasons 1.
- (c) Only 2 is true.
- (d) Neither 1 nor 2 is true.

97. Which is/are incorrect?

- (a) Market Stabilization Scheme is a mechanism to give more powers to RBI to manage liquidity.
- (b) The raised money under Market Stabilization Scheme goes to the government account for managing BoP.
- (c) Both (a) and (b)
- (d) Neither (a) nor (b)

98. Which one of the following cases prompted the Indian Parliament to enact 24th Constitution Amendment Bill?

- (a) Golaknath case
- (b) Shankari Prasad case
- (c) Keshvananda Bharati case
- (d) Shah Bano case

99. In his lectures on nationalism, Rabindranath Tagore argued that 1. Nationalism frees men and women from narrow loyalties and bonds and connects them to wider and better community of fellowship 2. Nationalism will foster a feeling of rootedness and cultural belonging and put an end to warmongering. Select the correct answer using the codes given below:-

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d). Neither 1 nor 2

100. 1. Most aerosols are found in the lower troposphere.

2. Aerosols have a cooling effect on Earth's climate.

Which of these is/are true?.


- (a) Only 1
- (b) Only 2
- (c) Both 1 & 2
- (d) Neither 1 Nor 2


Raja Sir's


CRACKING
IAS ACADEMY


Since 2005 — Feel the Pulse of UPSC...


402+ SELECTIONS IN 12 YEARS
Joining CrackingIAS -
My Best Decision in Life.


Thavaseelan, IAS 


 **Anshul Gupta**
All India Rank - 18


 **B. Saranya**
1'st Attempt - Success


 **ASHWIN**
IFS

 **SWAROOP**
IAS


 **PRADEEP KUMAR**
IAS TN CADRE

 **JAI ARVIND**
IRS

 **THAVASEELAN**
IAS

 **RASHMI**
IFS

crackingIAS.com

9884554654  2nd Floor

The New

Indian Express

TUESDAY, MAY 31, 2011

IAS Academy gets Cracking

...successfully mentored thousands of students to pursue their career of choice...

student S.Paul has scored **357** in **Sociology Mains 2010...**

1. **1. Extraordinary Money Supply**
2. Stimulates economic activity
3. Reduction in Interest rates
Which of the above Characterize Quantitative Easing?.
(a) 1, 2, 3
(b) 1 & 2
(c) 2 & 3
(d) None of these.
2. **Which of the following is/are benefit(s) of Fiscal Deficit?.**
1. Better use of resources
2. Additional Purchasing power
3. Helpful to developing countries
(a) Only 1 and 2 is correct
(b) Only 1 & 3 is correct
(c) Only 2 is correct
(d) 1, 2 & 3 are correct
3. **What is the implication of the Union government giving 'Special Status' to a State?**
(a) Subsequently large percentage of the Central assistance will be grants-in-aid
(b) Current account budgetary deficit will be bridged by the Union government
(c) The extent of loan as a percentage of total assistance will be high
(d) The Union government meets entire expenditure of the State during the period of 'Special Status'
4. **1. WPI measures inflation at wholesale market, while CPI measure at retail level.**
2. WPI is more or less same throughout the country but CPI vary across the region.
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
5. **Pakke Tiger Reserve is in**
(a) Manipur
(b) Odisha
(c) Assam
(d) Arunachal Pradesh
6. **1. The Balance of Payments of a country must always balance in the accounting sense.**
2. The surplus on current account must be equal to the deficit on capital account and vice versa.
Which of these statements is/are correct?
(a) Only 1
(b) 1 & 2
(c) Only 2
(d) Neither 1 Nor 2
7. **Agricultural income tax is assigned to the State government by**
(a) the Finance Commission
(b) the National Development Council
(c) the Inter-state Council
(d) the Constitution of India
8. **'Red Flag' is the joint exercise between India and**
(a) USA
(b) China
(c) Nepal
(d) Russia
9. **The vote-on-account can be taken for a maximum of**
(a) 2 months
(b) 6 months
(c) 3 months
(d) 12 months by repeated approvals
10. **The 'Quick Employment Survey' is being conducted by**
(a) Ministry of Finance
(b) Ministry of Trade & Commerce
(c) Labour Bureau
(d) CSO
11. **RBI has the power to raise Statutory Liquidity Ratio (SLB) upto**
(a) 55%
(b) 35%
(c) 40%
(d) 30%

12. **Capital Account includes**
 1. External Commercial Borrowing (ECB)
 2. Global Depository Receipts
 3. Foreign Portfolio Investments
 4. Interest Payments on International Investments
 (a) 1, 2 and 4
 (b) 1, 2 and 3
 (c) 2 and 4
 (d) 1, 3 and 4
13. **Which of the following Fundamental Rights is/are available to non-citizens?**
 1. Equality before Law
 2. Right against Discrimination
 3. Equality of Opportunity
 4. Protection of Life and Personal Liberty
 (a) 2, 3, 4
 (b) 1, 2, 3
 (c) 1, 4
 (d) All the above
14. **"Snowflake Coral" refers to**
 (a) It is an invasive species posing threat to the marine ecology of the south western region in India.
 (b) It is an only surviving coral species in the Arctic Ocean.
 (c) It refers to an Avalanche effect in Siachen Glacier.
 (d) None of these.
15. **Consider the following statements regarding correction in Balance of Payment (BoP).**
 1. Money contraction will result in correction in BoP deficit
 2. Contraction in money supply will reduce the domestic prices and hence increase the import resulting into correction in BoP deficit
 3. Increase in tourism services will have positive impact on BoP
 (a) 1 and 2
 (b) 1, 2 and 3
 (c) 2 and 3
 (d) 1 and 3
16. **On the subject of Income Tax**
 (a) the Union Government has more powers than State Governments
 (b) the State Governments have more powers than the Union Government
 (c) both Union and State Governments have equal powers but Union shall prevail in case of conflict
 (d) only the Union Government has power
17. **T.S.R. Subramanian that was in news was related to**
 (a) Education
 (b) Safety of women
 (c) Child labor
 (d) Peasants
18. **Which one of the following committees is not a Standing Committee of the parliament?.**
 (a) Public Accounts Committee
 (b) Estimates Committee
 (c) Committee on public Undertakings
 (d) Consultative Committee to the Ministry of Finance
19. **Purple-coloured rocks have been observed in**
 (a) Mercury
 (b) Jupiter
 (c) Mars
 (d) Pluto
20. **Consider the following statements.**
 1. Pranhita is the largest tributary of Krishna River.
 2. Pranahita Chevella lift irrigation scheme and a joint project between Tamilnadu and Telangana.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) Both 1 and 2 are true
 (d) Neither 1 nor 2 is true
21. **Proterozoic basins in India are primarily associated with**
 (a) Coal Bed Methane reserves
 (b) Uranium reserves
 (c) Shale gas reserves
 (d) None of these

22. Which of the following nation distinguishes itself to become the first nation in the world to come out with a very thoughtful measure in support of the victims of terror?.
- (a) Spain
(b) France
(c) USA
(d) Norway
23. According to the Supreme Court decision, appealing for votes on basis of which of the following will amount to corrupt practice?
1) Gender 2) Caste 3) Community
4) Religion 5) Language
- (a) 2, 3, 4, 5
(b) 1, 2, 3
(c) 1, 4
(d) All the above
24. The Special Safeguard Mechanism of the World Trade Organization (WTO) refers to
- (a) allowing a country to increase tariff on an agricultural goods, if there is a sudden surge in its imports or a fall in its prices.
(b) allowing a country to produce generic versions of a patented medicine, if it is needed for the purpose of public health purposes.
(c) providing special safeguards to the foreign investors, so that they are encouraged to invest through better technologies in the domestic economy.
(d) allowing a country to increase tariff on an individual goods needed for public purposes, like energy security.
25. Consider the following w.r.t. 'Tax Policy Research Unit'.
1. The unit will assist Tax Policy Council chaired by Finance Secretary.
2. It will be headed by an officer of level of Chief Commissioner, who will report to Finance Minister.
- Which of the above statements is/are correct?.
- (a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
26. Which of the following measures the total amount of income necessary to raise everyone who is below the poverty line up to that line?.
- (a) Head Count Ratio
(b) Squared Poverty Index
(c) Poverty Gap
(d) None of these
27. The 'River for Life' campaign is by
- (a) WWF
(b) Rainbow Warriors
(c) Green Peace
(d) Jointly by (b) & (c)
28. What is/are true about Jan Aushadhi Scheme?
1. It is self-sustaining business model not dependent on government subsidies or assistance.
2. Under this, less priced quality branded generic medicines will be made available for all.
- (a) 1 and 2 are true.
(b) Only 1 is true.
(c) Only 2 is true.
(d) Neither 1 nor 2 is true
29. The income of an Indian citizen from the renting of a flat in New York is to be included in
- (a) GNP of India
(b) GDP of India
(c) GNP of US
(d) GDP of US
30. Which of the following statements regarding Ordinance making powers of the President under Article 123 is/are correct?
- 1) Ordinance making powers of President is a parallel power of Legislation.
2) Ordinance can be passed only on those subjects on which the Parliament can make laws.
3) Can amend the constitution provided it doesn't alter the Basic Structure of the Constitution.

- 4) The maximum life of an ordinance is 6 weeks.
 (a) 1, 2 and 3
 (b) 2 only
 (c) 1 and 4
 (d) 1, 3 and 4
31. Solar Dynamics Observatory (SDO) is a mission of
 (a) NASA
 (b) ISRO
 (c) Neither (a) nor (b)
 (d) Jointly by (a) & (b)
32. Who is custodian of the Indian Constitution?
 (a) President of India
 (b) Prime Minister of India
 (c) Chief Justice of India
 (d) Parliament
33. The "Indirasagar Polavaram" on river Godavari has been conceived as a part of recommendations of Godavari Water Disputes Tribunal (GWDT).
 1. Maharashtra
 2. Andhra Pradesh
 3. Telangana
 4. Madhya Pradesh
 Which of the above share basins of both Godavari and Krishna Rivers?
 (a) 1 only
 (b) 1 and 2
 (c) 2, 3 and 4
 (d) 1, 2 and 3
34. What is/are true?
 1. 'Rotavac' combats infant mortality due to diarrhoea.
 2. This is an anti-viral vaccine.
 (a) 1 and 2 are true.
 (b) Only 1 is true.
 (c) Only 2 is true.
 (d) Neither 1 nor 2 is true
35. Consider the following statements:
 1. Miniature Painting resembles the Ajanta style.
 2. In Miniature Painting, Buddhist, Jain and Hindu manuscripts were illustrated, on palm leaves.
 Which of the statements given above is/are true?
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
36. What is/are the features of "Bikaneri Narma (BN Bt)" Desi Bt. Cotton that is most often in news?
 (a) Drought-tolerant cotton
 (b) Resistant to sucking pests like jassids and aphids
 (c) Neither (a) nor (b)
 (d) Both (a) & (b)
37. The 1931-Karachi session of Indian National Congress when the Resolution FRs and National Economic Policy was adopted was presided by
 (a) Vallabhai Patel
 (b) Motilal Nehru
 (c) J.Nehru
 (d) Rash Behari Ghosh
38. How "closure" is different from "Guillotine" in Parliamentary language?
 1. While Closure ends a debate, Guillotine ends a session
 2. While Closure is preceded by a motion, Guillotine is not preceded by a motion.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
39. 1. In lending, MUDRA bank focuses on enterprises set up by the under-privileged sections of the society.
 2. MUDRA is setup as a refinance institution.
 3. Regulation of micro finance institutions (MFIs) is not the mandate of MUDRA bank.
 Which of the above statement/s is/are correct?
 (a) 1 and 2
 (b) 1, 2 and 3

- (c) 2 and 3
(d) 1 and 3
40. 1) The President can pardon sentences inflicted by court martial.
2) Both the President and the Governor have the concurrent power in respect of suspension, remission and commutation of death sentences.
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
41. What were the objectives of the introduction of the Joint Consultative Machinery (JCM) by the government?
1. To promote harmonious relations between the government and its employees
2. To secure the greatest measure of cooperation between the government and employees in matters of common concern
3. To increase the efficiency of public services
4. To maintain discipline in the civil services
Select the correct answer using the code given below :
(a) 1, 2 and 3 only
(b) 1, 3 and 4 only
(c) 2, 3 and 4 only
(d) 1 and 4 only
42. A decrease in tax to GDP ratio of a country indicates which of the following?
1. Slowing economic growth rate
2. Less equitable distribution of national income
(a) Only 1
(b) 1 & 2
(c) Only 2
(d) Neither 1 Nor 2
43. 1. While gravitational waves can travel unhindered through intervening matter, electromagnetic waves are readily scattered by intervening matter.
2. Gravitational waves have wavelengths much longer than electromagnetic waves.
- Which of the above statements is/are correct?
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
44. "Sunset Law" in British India was related to
(a) Civil services
(b) Army
(c) Education
(d) Land Revenue
45. Consider the following statements.
1. Archaeological Survey of India (ASI) is the world's biggest state-run archaeology.
2. Archaeological Survey of India (ASI) was established during the viceroyalty of Lord Canning.
(a) Only 1 is true
(b) Only 2 is true
(c) Both 1 and 2 are true
(d) Neither 1 nor 2 is true
46. "Smokeless Panchayat"
1. is an initiative by the Ministry of Panchayat Raj.
2. envisages to make LPG connection available across rural India .
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
47. Which of the following are matters on which constitutional amendment is possible only with the ratification of the legislatures of not less than one half of the States?
1. Election of the President
2. Representation of States in Parliament
3. Any of the List in the 7th Scedul
4. Abolition of the Legislative Council of a State
(a) 1, 2 and 3
(b) 2 only
(c) 1 and 4
(d) 1, 3 and 4

48. **“Inflationary gap” refers to**
 (a) Difference between CPI and WPI inflation.
 (b) The excess of total government spending above the national income.
 (c) The shortfall in total spending of the government.
 (d) None of these
49. **Which one of the following is the correct chronological 'order of setting up of the given Commissions concerning weaker sections of the Indian society?**
 (a) Kaka Saheb Kalelkar Commission- National Commission for Minorities- National Commission for Scheduled Castes and. Scheduled Tribes-Mandal Commission
 (b) National Commission ' for Scheduled Castes and Scheduled Tribes-National Commission for Minorities-Kaka Saheb Kalelkar Commission-Mandal Commission
 (c) Kaka Saheb Kalelkar Commission- Mandal Commission-National Commission for Scheduled Castes and Scheduled Tribes-National Commission for Minorities
 (d) National Commission for Scheduled Castes and Scheduled Tribes-Mandal Commission-Kaka Saheb Kalelkar Commission-National Commission for Minorities
50. **Consider the following statements.**
 1. Cotton is the only genetically-modified seed that's legally allowed in India.
 2. The whitefly outbreak has intensified a debate over GM crops in Punjab & Haryana.
Which of the statements given above is/are correct?
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
51. **An expansionist monetary policy implies that**
 (a) RBI increases CRR and REPO rates.
 (b) RBI reduces CRR and REPO rates.
 (c) RBI adopts market stabilization scheme.
 (d) Both (b) & (c)
52. **Who began the practice of holding a Social Conference along with the annual session of the Indian National Congress?**
 (a) M.G. Ranade
 (b) Madan Mohan Malviya
 (c) K. C. Sen
 (d) Gokhale
53. **Among the various sub sectors of the service sector which claims the largest share in India's GDP?**
 (a) Communication services
 (b) Trade, hotels, and restaurants
 (c) Community services
 (d) Construction
54. **Which of the following is/are not a “Derivative/(s)”?**
 (a) Options
 (b) Leaps & Swaps
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
55. **Which of the following organizations published the World Economic Situation and Prospects?**
 (a) UN
 (b) IMF
 (c) WB
 (d) WEF
56. **Which of the following is/are true regarding Eco-Sensitive Zone?**
 (a) The zone limits are set on case by case basis and there is no standard specified limit to it.
 (b) All activities are banned in the eco-sensitive zone.
 (c) Neither (a) nor (b)
 (d) Both (a) & (b)
57. **A South Rajasthani tribe earning its living by song and dance is**
 (a) Khasis
 (b) Garasia
 (c) Mayas
 (d) Moors

58. 1. The President has been empowered to promulgate Ordinances at his discretion under Article 123 of the Constitution.
2. Britain, the United States of America, Australia and Canada do have provisions similar to that of Ordinances in the Indian Constitution.
(a) Only 1 is true.
(b) Only 2 is true.
(c) 1 & 2 are true
(d) Neither 1 nor 2 is true
59. Which of the following policies aims to reduce the Current Account Deficit?
1. Currency Devaluation
2. Reduction in import duties
3. Tightening of fiscal and monetary policy
4. Providing export subsidies
(a) 3 and 4 only
(b) 1, 2 and 3 only
(c) 1, 3 and 4 only
(d) 2 and 4 only
60. The scheme/(s) for women in women in difficult circumstances is/are
(a) Swadhar
(b) Sabla
(c) Both (a) & (b)
(d) Neither (a) nor (b)
61. Full Capital Account Convertibility
1. may lead to downfall of domestic companies
2. will lead increased phenomenon of HOT money.
3. will increase Fiscal deficit
4. Cost of capital will Decrease
(a) 1, 2 and 4
(b) 1, 2 and 3
(c) 2 and 4
(d) 1, 3 and 4
62. The form of government in India is termed as Parliamentary Government due to:
1. Presence of both nominal and real executives.
2. Collective responsibility of the executive to the legislature.
3. Sovereignty of the parliament.
- (a) 1 and 2 only
(b) 1 and 3 only
(c) 2 only
(d) 1, 2 and 3
63. 1. The scheme helps in keeping food inflation under check
2. The liquidation of food grains will be carried out by FCI through e-auctions.
Which of the above is / are correct statements w.r.t. Open Market Sale Scheme-Domestic (OMSS - D) in India ?
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
64. Which of the following are true about Indian Money Market?
1. It provides a key link in the operations of monetary policy to financial markets.
2. It provides funds in non-inflationary way to the government.
3. Treasury Bill is a money market instrument.
(a) 1 and 2
(b) 1 and 3
(c) 2 and 3
(d) 1, 2 and 3
65. Effective Revenue Deficit is the difference between
(a) Revenue deficit & investment in securities
(b) Revenue deficit & interest payments
(c) Revenue deficit and grants for creation of capital assets
(d) Revenue deficit and grants for creation of current assets
66. The Palitana temples of Jains are located on
(a) Shatrunjaya hills
(b) Mt. Abu
(c) Vindhyas
(d) Satpurus

67. A writ of Habeas Corpus for the release of a person can be issued
1. where the arrest or detention has taken place in contravention of the procedure established by law
 2. to secure the release of a person imprisoned on a criminal charge
 3. where the arrest has taken place for contempt of Court or the Parliament
- (a) 1, 2 and 3
(b) 1 only
(c) 2 and 3 only
(d) 1 and 2 only
68. Disguised Employment can be seen in
1. Service Sector
 2. Agriculture
 3. Small Family Business
- Which of these is/are true?.
- (a) 1, 2, 3
(b) 1 & 2
(c) 2 & 3
(d) None of these.
69. 'Global Economic Prospects' report issued by.
- (a) World Bank
(b) World Economic Forum
(c) IMF
(d) WTO
70. Which of the following is/are components of Capital Expenditure in Public Expenditure?.
1. Loans and Advances
 2. Discharge of debts
 3. Science & Research
- (a) Only 1 and 2 is correct
(b) Only 1 & 3 is correct
(c) Only 2 is correct
(d) 1, 2 & 3 are correct
71. Vice President can be removed by a resolution passed in the Rajya Sabha which requires an effective majority is required in this case of removal. What is Effective Majority?
- (a) 2/3rd of members present and voting in the House.
- (b) Majority of the total membership of the House.
(c) Majority of the total membership of the House excluding the vacancies in the House.
(d) Majority of the persons present and voting in the House.
72. Which of the following is used in calculation of Dearness Allowance, which forms an integral part of salary of a Government Employee?.
- (a) CPI
(b) WPI
(c) CPI + WPI
(d) CPI + WPI + SLR
73. Consider the following statements.
- 1) Prior sanction of the parliament is not required to spend from the contingency fund.
 - 2) Receipts by way of repayment of loans form a part of the consolidated fund.
- (a) Only 1 is correct
(b) 1 and 2 are correct
(c) Only 2 is correct
(d) Neither 1 nor 2 is correct
74. 1. Statutory Liquidity Ratio (SLR) is the ratio of total deposit of the bank which is kept with RBI.
2. Statutory Liquidity Ratio (SLR) is maintained in non-cash form.
- (a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
75. National Commission for Women was created by
- (a) amending the Constitution
(b) a decision of the Union Cabinet
(c) an Act passed by Parliament
(d) an order of the President of India
76. VPM1002 that was in news refer to
- (a) A meteorite
(b) A genetically-engineered mustard crop
(c) A new vaccine for tuberculosis
(d) An explosive device

77. **1. The BoP is a statistical statement that comprises transactions between residents and non-residents during a period.**
2. In the compilation of BoP determination of the residence of economic entities is necessary instead of nationality.
Which of the above given statement/s is/are correct about Balance of Payment?.
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
78. **“SARAT” that was in news recently is related to**
 (a) Cashless Economy
 (b) Rescue Operation
 (c) Universal Elementary Education
 (d) Child Help Line
79. **Regional Comprehensive Economic Partnership (RCEP) is a proposed free trade agreement (FTA) between**
 (a) Member states of the Association of Southeast Asian Nations (ASEAN) & the six states with which ASEAN has existing FTAs.
 (b) Member states of the Association of Southeast Asian Nations (ASEAN) & the four states with which ASEAN has existing FTAs.
 (c) Member states of the East Asian Summit & the six states with which ASEAN has existing FTAs.
 (d) Member states of the East Asian Summit & four states with which ASEAN has existing FTAs.
80. **If interest payments are subtracted from gross fiscal deficit, we will get**
 (a) Revenue deficit
 (b) Budgetary deficit
 (c) Gross primary deficit
 (d) Capital deficit
81. **What is “ShaGun” that was in news recently?.**
 (a) An artillery gun indigenously developed by DRDO.
 (b) An artillery gun developed by Ordnance Factory, Trichirapalli with the assistance of Israel.
 (c) It is a combatant device of air pollution.
 (d) None of these.
82. **Which of the following industries is not part of Eight Core industries under Index of Industrial Production (IIP) in India?**
1. Cement production and Steel production
2. Natural Gas production and Fertilizer production
3. Automobiles and Cotton and Sugar Industry
Which of the statements given above is/are correct?
 (a) 1 & 2
 (b) 2 & 3
 (c) Only 3
 (d) None of these
83. **Which of the following s/are extra constitutional /extra-legal device(s) for securing cooperation and coordination between the States in India?**
1. The National Development Council
2. The Governors’ Conference
3. Zonal Councils
4. The Inter State Council
 (a) 1, 2 and 3
 (b) 2 only
 (c) 1 and 4
 (d) 1, 3 and 4
84. **Which one of the following matters stands excluded from the jurisdiction of Inter-State Council in India?**
 (a) Enquiring into and advising upon disputes which may have arisen between the states
 (b) Adjudication of any dispute or complaint with respect to the use, distribution or control of waters of or in, any inter-state river or river-valley
 (c) Investigation and discussion of subjects in which some or all of the States or the Union and one or more States, have a common interest
 (d) Recommendation on any such subject and, in particular, recommendation for a better coordination of policy and action with respect to that subject

85. **The advantages of Inflation Indexed Bonds (IIBs) are**
 (a) Reversal of declining savings-to-GDP ratio.
 (b) Boosts domestic savings
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
86. **Which of the following protocol aims to ensure safe handling, transport and use of genetically modified organism?**
 (a) Treaty of Rio
 (b) Nagoya protocol
 (c) Geneva protocol
 (d) Cartagena protocol
87. **Across how many states "Silk Road Sites" are spread in India?.**
 (a) 7
 (b) 8
 (c) 3
 (d) 5
88. **Central Statistical Office (CSO) Compiles**
 1. National Accounts
 2. Index of Industrial Production (IIP)
 3. Consumer Price Indices.
 (a) 1 and 3 only
 (b) 1 and 2 only
 (c) 2 and 3 only
 (d) 1 only
89. **Which of the following is/are true?.**
 (a) Delhi has registered the highest per capita income among all states and union territories of the country during 2015-2016, according to the National Statistical handbook.
 (b) Delhi's per capita income is three times the national average.
 (c) Neither (a) nor (b)
 (d) Both (a) & (b)
90. **Which of the annual reports is the President not duty bound to ensure that they are placed before Parliament?**
 (a) Report of Comptroller and Auditor General of India
 (b) Report of Union Public Service Commission
 (c) Report of Commissioner for Scheduled Castes and Scheduled Tribes
 (d) Report of Atomic Energy Commission
91. **Government of India has declared year 2016 as**
 (a) Year of LPG Consumers.
 (b) Year of Financial Inclusion.
 (c) Year of Pulses
 (d) Year of Soils
92. **Consider the following statements.**
 1. Emergency provisions like that of President's Rule do not apply to the state of Jammu and Kashmir.
 2. Governor's Rule is imposed in emergencies in Jammu and Kashmir.
Which of the above statements are not true?
 (a) 1 and 2 are true.
 (b) Only 1 is true.
 (c) Only 2 is true.
 (d) Neither 1 nor 2 is true
93. **What is/are true about Dual Government System of Bengal?**
 1. The British had power without responsibility.
 2. The peasantry of Bengal suffered greatly due to arbitrary revenue demands.
 (a) 1 and 2 are true.
 (b) Only 1 is true.
 (c) Only 2 is true.
 (d) Neither 1 nor 2 is true.
94. **Which of the following has the highest weight among the index of mineral production?.**
 (a) Iron
 (b) Coal
 (c) Aluminum
 (d) Petroleum
95. **1. Wholesale Price Index is used as an important measure of inflation in India.**
2. Inflation rate is the difference between WPI calculated at the beginning and the end of a year.
3. WPI considers a total of 676 commodities on

a price level and tracks them.
Which of these is/are true?.

- (a) 1, 2, 3
- (b) 1 & 2
- (c) 2 & 3
- (d) None of these.

96. Which of the following is/are false?.

- (a) Agni-IV is a nuclear-capable missile with a range of 4,000 km while Agni-V has a range of 5,000 km.
- (b) With the most accurate ring laser gyro-based inertial navigation system (RINS) and supported by highly reliable redundant micro navigation system (MINGS), the Agni-IV ensures the vehicle reaches the target within two-digit accuracy.
- (c) Neither (a) nor (b)
- (d) Both (a) & (b)

97. It may result in inflation.

1. Increase in the repo rate.
 2. Increase in the indirect taxation rate.
 3. Proper maintenance of buffer stock of major agricultural products.
 4. Decrease in the crude oil production.
- (a) 1, 2 and 4
 - (b) 1, 2 and 3
 - (c) 2 and 4
 - (d) 1, 3 and 4

98. The Vishakha guidelines of Supreme Court pertain to

- (a) safe working environment for women
- (b) safe working environment for children
- (c) Prevention of Domestic Violence to Women
- (d) Both (a) & (c)

99. 1. Poverty Gap is a measurement of the intensity of poverty among the poor and the difference between the mean income among the poor and the rich.

2. The Poverty Gap Index is the combined measurement of incidence of poverty and depth of poverty.

Which of these statements is/are correct?

- (a) Only 1
- (b) 1 & 2
- (c) Only 2
- (d) Neither 1 Nor 2

100. Which one of the following taxes is levied and collected by the Union and distributed between the Union and the States?

- (a) Taxes on income other than agricultural income
- (b) Taxes on sale or purchase of newspapers and on advertisements published therein
- (c) Taxes other than stamp duties on transactions in stock exchanges and future markets
- (d) Taxes on railway fares and freights

Crackingias.com

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Raja Sir's


CRACKING
IAS ACADEMY

Since 2005 — Feel the Pulse of UPSC...

SOLID 60 - PRELIMS 2017
JET FAST Classes from May 15, 2017
@ Rs. 1000/- ONLY
A SURE SHOT COURSE

ONLY UNIQUE COURSE @ CHENNAI
50 HOURS CLASS

- * General Science 900 only
- * India Year Book if you Join before
- * Economic Survey April 10 2000
- * PIB Coverage Potential questions

Target to Clear Prelims
Not to Top Prelims

CALL/SMS/ Whats App Yout Name to : 98845 54654

2nd Floor, New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY

1. Consider the following w.r.t. 'Sukanya Samriddhi Yojna'.
1. launched as a part of the 'Beti Bachao Beti Padhao' campaign
2. a small deposit scheme for girl child.
Which of the above statements is/are correct?
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
2. Hangzhou Consensus is related to
(a) G20
(b) BRICS
(c) SCO
(d) NAM
3. Medical Termination of Pregnancy implies
(a) Abortion is legal under certain circumstances but must be done according to the law.
(b) Forcing a woman to terminate the pregnancy is an offence.
(c) Neither (a) nor (b)
(d) Both (a) & (b)
4. New York Declaration is related to
(a) Hazardous Chemicals
(b) Refugees
(c) WTO – Subsidies issue
(d) Women Empowerment
5. One Stop Centres (OSC) are intended to
1) support women affected by violence, in private and public spaces, within the family, community and at the workplace.
2) rescue missing children
(a) 1 & 2
(b) 2 only
(c) 1 only
(d) None of the above
6. Criteria for National Party
1) 11 seats in Lok Sabha from at least three different States.
2) state party in at least six states
(a) Only 1 is correct
(b) 1 and 2 are correct
(c) Only 2 is correct
(d) Neither 1 nor 2 is correct
7. Gender Inequality Index (GII), developed by UNDP measures the human development costs of gender inequality. Which of the following forms a part of GII?
1. Life expectancy
2. Reproductive health
3. Empowerment
4. Control over economic resource
5. Labour market participation
(a) 1, 2 and 4 only
(b) 3, 4 and 5 only
(c) 2, 3 and 5 only
(d) 1, 2 and 4 only
8. Which of the following is/are true about Battle of Long Tan?
(a) Related to Vietnam War
(b) Australia is involved in it
(c) Neither (a) nor (b)
(d) Both (a) & (b)
9. Consider the following statements:
1. National Human Rights Commission falls under Ministry of Home affairs
2. After their tenure Chairman & members are not eligible for further employment under the central or state government.
3. Its recommendations are binding on the concerned government or authority.
Choose correct codes from the below given options:
(a) 1 and 2 only
(b) 2 and 3 only
(c) 1 and 3 only
(d) 1, 2 and 3
10. World's first quantum satellite was launched by
(a) China
(b) Japan
(c) USA

- (d) Russia
11. **Food & Nutrition Board is under**
 (a) Ministry of Health
 (b) Ministry of Women & Child Development
 (c) Ministry of Agriculture
 (d) Ministry of Chemicals
12. 1. **The Bureau of Indian Standards is the authority which governs and enforces the manufacture and correct usage of the flag according to the certain standards issued in three sets of documents.**
 2. **Khadi or hand-spun cloth is the only material allowed to be used for the flag.**
 3. **Raw materials for khadi are restricted to cotton, silk and wool.**
 (a) 1 and 2 only are true
 (b) 1 and 3 only are true
 (c) 2 only is true
 (d) 1, 2 and 3 are true
13. **Consider the following statements about the Minimum Support Price (MSP) offered to farmers by the government:**
 1. **It is offered for food crops only.**
 2. **Its purpose is to control inflation by regulating the prices of agricultural products.**
 3. **The MSP is announced by the Government of India at the end of the sowing season for certain crops on the basis of the recommendations of the Commission for Agricultural Costs and Prices (CACP).**
Which of the statements given above is/are incorrect?.
 (a) 1 only
 (b) 1 and 2 only
 (c) 2 and 3 only
 (d) 1, 2 and 3
14. **NASA's Cassini Spacecraft has discovered steep-sided canyons in**
 (a) Titan
 (b) Ganymede
 (c) Io
 (d) Alpha Centuari
15. **Panchayat (Extension to the Scheduled Areas) Act 1996 was enacted for special safeguards. Which of the following statements is/are true about this?.**
 1. **PESA Act is implemented in Schedule V and VI areas.**
 2. **The reservation for the Scheduled tribes at panchayats shall not be less than one-third of the total number of seats.**
 3. **All seats of chairpersons of panchayats at all level shall be reserved for the Scheduled Tribes.**
 (a) 1 only
 (b) 2 only
 (c) 3 only
 (d) None of the above
16. **Public Debt Management Cell has been set up by**
 (a) RBI
 (b) Finance Ministry
 (c) PMO
 (d) Jointly by (a) & (b)
17. **With reference to the recently developed India's first indigenous Rotavac vaccine, consider the following statements:**
 1. **It is developed to combat diarrhoeal deaths.**
 2. **It is developed by Bharat Biotech Ltd. in collaboration with CSIR's Central Drug Research Institute.**
 3. **It is administered sub-cutaneously as well as orally.**
Which of the statements given above is/are correct?.
 (a) 1 & 2 only
 (b) 2 only
 (c) 3 only
 (d) None of the above
18. **Which of the following is/are true ?.**
 1. **UN Human Rights Council is 47-member body in based in Geneva.**
 2. **The council doesn't have the authority to take action.**
 (a) 1 and 2 are correct

- (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
19. **Global Gender Gap Index is released by**
 (a) WB
 (b) UNDP
 (c) UN WOMEN
 (d) WEF
20. **Leaders Retreat Outcome Document 2016 is related to**
 (a) G20
 (b) BRICS
 (c) BIMSTEC
 (d) NAM
21. **Which of the following is/are demerit(s) of Fiscal Deficit?.**
 1. Increase in money supply
 2. Adverse effect on savings
 3. Rise in prices
 (a) Only 1 and 2 is correct
 (b) Only 1 & 3 is correct
 (c) Only 2 is correct
 (d) 1, 2 & 3 are correct
22. **Which of the following is/are not under Neglected Tropical Disease?.**
 1. AIDS
 2. TB
 3. Malaria
 4. Filariasis
 (a) 3 and 4 only
 (b) 1, 2 and 3 only
 (c) 2 and 4 only
 (d) 4 only
23. **Most Constitutional amendments were during the tenure of**
 (a) Rajiv Gandhi
 (b) Jawaharlal Nehru
 (c) Vajpayee
 (d) Indira Gandhi
24. **Which of the following is/are true regarding**
- GST?**
 (a) Alcohol for human consumption has been kept out of the purview of GST.
 (b) Tobacco and tobacco products will be subject to GST.
 (c) Neither (a) nor (b)
 (d) Both (a) & (b)
25. **The oath of office is administered to the Governor by the**
 (a) Chief justice of India
 (b) President
 (c) Chief justice of high court
 (d) Speaker of legislative assembly
26. **Amitabh Kant committee was related to**
 (a) E-Commerce
 (b) Gender Equity
 (c) Global Dimming
 (d) demonetisation
27. **Consider the following statements with respect to the legislative powers of the Governor of a State:**
 1. The Governor can summon, prorogue and dissolve the State Assembly.
 2. The Governor can adjourn the sittings of the State Assembly.
 3. The Governor addresses the first session of the Legislative Assembly after elections.
 4. The Governor causes to lay the annual budget in the State Assembly.
Which of the statements given above are correct?
 (a) 1 and 2
 (b) 1 and 3
 (c) 2 and 3
 (d) 2 and 4
28. **Which of the following is/are not true ?**
 (a) The names of protected species of animals, birds and plants have been mentioned at Schedule II of Wild Life (Protection) Act, 1972.
 (b) Botanical Survey of India (BSI) has pursued ex-situ conservation in its and associated botanic gardens.

- (c) Both (a) & (b)
(d) Neither (a) nor (b)
29. 'Jan Shikshan Sansthan' are established to
1. provide vocational training to school drop outs.
 2. focus on education of women, SCs and STs.
 3. focus on adult education.
- (a) 1 only
(b) 3 only
(c) 2 only
(d) None of the above
30. True about RIMPAC
1. conducted biennially by the US Navy off the Hawaiian Coast
 2. held in Majuro in 2016
 3. India did not participate in it.
 4. Majuro is in Finland.
- (a) 1 and 2
(b) 1, 2 and 3
(c) 2 and 4
(d) 1, 3 and 4
31. As per the National Population Policy 2000, we aim to achieve stable population by
- (a) 2050
(b) 2020
(c) 2045
(d) 2070
32. Which of the following is/are true ?
1. There are presently 19 nuclear power reactors in India.
 2. Their total capacity is 5780 MW.
- (a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
33. With regard to various types of unemployment, consider the following statements :
1. If in an economy there is surplus workforce in one sector and there is short supply of workforce in the other sector then it is known as disguised unemployment.
 2. Disguised unemployment is found in agriculture sector in India.
 3. Frictional unemployment is caused by periodical increase and decrease in the growth of economy. Which of the statements given above is/are correct?.
- (a) 1 and 3 only
(b) 1, 2 and 3
(c) 2 only
(d) 2 and 3 only
34. The Diamond Quadrilateral is a project of
- (a) Railways
(b) Airforce
(c) NHAI
(d) Both (a) & (c)
35. Consider the following statements:
1. Indian Constitution has introduced the 'differentiated-citizenship'.
 2. Article 44 encapsulates the Constitution's 'simultaneous commitment' to individual and community rights.
- (a) Only 1 is true
(b) Only 2 is true
(c) 1 and 2 are true
(d) 1 and 2 are false
36. Consider the following statements.
1. Endosulfan is a chlorinated hydrocarbon insecticide.
 2. Endosulfan causes DNA damage in the form of breaks in DNA strands.
- Which of the statements given above is/are correct?
- (a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
37. Consider the following statements about Participatory Notes in India:
1. Participatory Notes are issued by RBI to overseas investors to invest in the Indian stock

market.

2. Any entity investing in participatory notes is not required to register with SEBI.

Which of the above statements is/are correct?

- (a) Only 1
- (b) 1 & 2
- (c) Only 2
- (d) Neither 1 Nor 2

38. Femtochemistry

- (a) explains why quantum behavior occurs.
- (b) deals with eco friendly chemistry.
- (c) enables us to understand why certain chemical reactions take place but not others.
- (d) enables us to understand why protein denaturation occurs.

39. India is a member of

- 1. COMESA
- 2. ASEAN Plus Three
- 3. Asia-Pacific Economic Cooperation

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) None of these

40. "Cas9" in CRISPR–Cas9 technique refers to

- (a) a vector.
- (b) an enzyme
- (c) a plasmid
- (d) an hormone

41. "Flamenco India", a dance cultural festival, was celebrated recently to mark diplomatic relationship between India

- (a) Spain
- (b) France
- (c) Italy
- (d) Australia

42. Consider the following statements.

- 1. CRISPRs are segments of prokaryotic DNA containing short repetitions of base sequences.
- 2. The CRISPR/Cas system is a prokaryotic immune system that confers resistance to foreign genetic elements and provides a form of acquired immunity.

Which of the statements given above is/are correct?

- (a) 1 and 2 are correct
- (b) Only 1 is correct
- (c) Only 2 is correct
- (d) None is correct

43. Consider the following crops: 1. Cotton 2. Jute 3. Sugarcane 4. Oilseeds Which of the above are included under the National Food Security Mission-Commercial Crops?

- (a) 1, 3 and 4 only
- (b) 1, 2 and 3 only
- (c) 2, 3 and 4 only
- (d) All of the above

44. It is not a component of Ujjawala scheme.

- (a) Prevention
- (b) Rescue
- (c) Rehabilitation
- (d) Remarriage

45. Which of the following is/are true?

- (a) World Bio-Fuel Day is observed across the world on 10 August.
- (b) On 10 August 1893, Sir Rudolph Diesel for the first time successfully ran mechanical engine with Peanut Oil.
- (c) Neither (a) nor (b)
- (d) Both (a) & (b)

46. Rasa dance is a part of the story of

- (a) Rama
- (b) Krishna
- (c) Vishnu
- (d) None of these

47. Which of the following is/are true regarding Yaad karo Azadi?

- (a) It will kick start on the anniversary of chander shekhar Azad at his birth place in Alirajpur in Madhya Pradesh.
- (b) The Yaad Karo Kurbanii 2016 aimed to commemorate 75th anniversary of the Quit India Movement and 70 years of Independence.
- (c) Neither (a) nor (b)

- (d) Both (a) & (b)
48. **Who among the following are provided with immunity under Article 361?**
- President, Governor
 - President, Governor, Prime Minister
 - President, Governor, Prime Minister, Chief Minister, Comptroller and Auditor General
 - President, Governor, Prime Minister, Chief Minister
49. **Which is correct?**
- $[(\text{World Ecological Footprint})/(\text{World Biocapacity})] \times 24 = \text{Earth Overshoot Day}$
 - $[(\text{World Biocapacity})/(\text{World Ecological Footprint})] \times 365 = \text{Earth Overshoot Day}$
 - $[(\text{World Biocapacity})/(\text{World Ecological Footprint})] \times 24 = \text{Earth Overshoot Day}$
 - $[(\text{World Ecological Footprint})/(\text{World Biocapacity})] \times 365 = \text{Earth Overshoot Day}$
50. **With respect to Linguistic minority, consider the following statements**
- It has been defined in the constitution
 - It has a separate spoken language
 - It has a distinct script
 - It has a distinct literature
- Choose correct codes from the below given options:**
- 1,3 and 4 only
 - 2 only
 - 1,2 and 3 only
 - 1,2 and 4 only
51. **1. The main purpose of the DISHA is to coordinate with Central and State and local Panchayat Governments.**
- 2. The Chairperson of the committee will be the senior most Member of Parliament (Lok Sabha) elected from the district, nominated by the Union Ministry of Panchayat Raj.**
- Which of the above statements is/are correct?**
- 1 and 2 are correct
 - Only 1 is correct
 - Only 2 is correct
 - None is correct
52. **According to the Constitution of India, Article 3 authorizes the Parliament to reorganize the States. With this authority, the Parliament can:**
- alter the name of any state
 - diminish the area of any state
 - alter the boundaries of any state
 - increase the area of any state
- 1, 3 and 4 only
 - 1 and 3 only
 - 2, 3 and 4 only
 - All of the above
53. **India has (as per recent Economic Survey)**
- 7 taxpayers for every 100 voters
 - 17 taxpayers for every 100 voters
 - 9 taxpayers for every 100 voters
 - 19 taxpayers for every 100 voters
54. **1. To promote educational and economic interests of SCs and STs.**
- 2. To provide equal justice and free legal aid to the poor.**
- 3. To protect monuments of national importance**
- 4. To separate the judiciary from the executive in the public services of the State**
- 5. To secure for all citizens a uniform civil code throughout the country**
- Which of the above are the Liberal-Intellectual principles that are reflected in the Directive Principles of State Policy?**
- 1, 3, 4 and 5 only
 - 1, 4 and 5 only
 - 3, 4 and 5 only
 - All of the above
55. **'Mission 41K' is related to**
- IT Sector
 - Missiles
 - Black Money
 - Energy Conservation
56. **Assertion (A): The Directive Principles are non-justiciable in nature.**
- Reason (R): Any law that gives effect to**

Directive Principles of State Policy in Article 39(b) and Article 39(c) and in the process the law violates Article 14 or Article 19, then the law is not considered unconstitutional Select the correct answer using the code given below:

- (a) Both A and R are True and R is the correct explanation of A.
 (b) Both A and R are True and R is not the correct explanation of A.
 (c) A is True and R is False.
 (d) A is False and R is True.

57. **Tejaswini Project seeks to empower**

- (a) OBC Women
 (b) Adolescent Girls
 (c) Destitute Women
 (d) All the above

58. **In Indian context, the rule of equality before law is not absolute; there are certain exceptions to it.**

1. A member of Parliament is answerable to court in respect of anything said or any vote given by him in Parliament
2. The President or the Governor enjoy constitutional immunities
3. Foreign ambassadors and diplomats enjoy not only criminal immunities but civil immunities as well

Which of the statement(s) given above is/are correct?

- (a) 1 and 3 only
 (b) 1 and 2 only
 (c) 2 and 3 only
 (d) All of the above

59. **'Wall of Wishes' was inaugurated to celebrate**

- (a) Corruption free government
 (b) Women in Politics
 (c) Olympic Mood
 (d) Child Labour free India

60. **Which of the States doesn't have a Bicameral legislature?**

- (a) Andhra Pradesh
 (b) Uttar Pradesh

- (c) Bihar
 (d) Madhya Pradesh

61. **First state in the country to approve sewage and waste water policy**

- (a) Tamilnadu
 (b) Kerala
 (c) Rajasthan
 (d) Karnataka

62. **When a resolution of removal of Vice-President is under consideration, The Vice-President can:**

1. Preside over the Upper House that is Rajya Sabha.
2. Can be present in the House and take part in discussions and proceedings.
3. Can vote in first instance.

Select the correct answer using the code/s given below:

- (a) 2 only
 (b) 1 and 2 only
 (c) 1 and 3 only
 (d) None of the above

63. **Typhoon Nida attacked in August 2016**

- (a) Brazil
 (b) Nepal
 (c) India
 (d) China

64. **Article 19, in the Indian Constitution guarantees to all citizens six rights (Right to Freedom). Consider the following with reference to Freedom of Movement:**

1. The entry of outsiders in tribal areas is restricted
2. The freedom of movement of prostitutes can be restricted on the ground of public health

Select the correct answer using the code/s given below:

- (a) 1 Only
 (b) 2 Only
 (c) Both 1 and 2
 (d) None of the above

65. **What is/are benefits of Kishori Shakti Yojna?**
 (a) Girls will get general health check up every six month.
 (b) To teach young girls sufficient vocational skills
 (c) Neither (a) nor (b)
 (d) Both (a) & (b)
66. (1) Hubble Space Telescope's instruments observe in the near ultraviolet, visible and near infrared spectra.
 (2) Hubble's orbit outside the distortion of Earth's atmosphere allows it to take extremely high-resolution images with negligible background light.
 (3) The HST was built by NASA, with contributions from the European Space Agency and operated by the Space Telescope Science Institute. Which of the statements given above is /are correct?
 (a) Only 1
 (b) 1 and 3
 (c) 1 and 2
 (d) 1, 2 and 3
67. **Benefits of Swayamsiddha Scheme**
 1. Women education
 2. Becoming an entrepreneur
Which of the statements given above is/are true?.
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
68. **Which of the following vaccines is/are assigned under India's Universal Immunisation Program (UIP)?**
 (1) Inactivated Polio Vaccine (IPV)
 (2) Measles, Rubella (MR) vaccine
 (3) Adult Japanese Encephalitis (JE) vaccine
 (4) Rotovac
 (a) 1 only
 (b) 2 and 3
 (c) 1, 2 and 3
 (d) 1, 2, 3 and 4
69. **MUDRA Yojana covers**
 1. MSMEs
 2. Fishermen
 (a) 1 and 2 are true.
 (b) Only 1 is true.
 (c) Only 2 is true.
 (d) Neither 1 nor 2 is true
70. **Consider the following statements :**
 (1) Rashtriya Krishi Vikas Yojana (RKVY), a sub-scheme of Bringing Green Revolution to Eastern India (BGREI), is being implemented in seven eastern states to address the constraints limiting the productivity of rice based cropping systems.
 (2) Under this scheme, various activities like cluster demonstrations of improved package of practices, assets building, site specific activities and marketing support are being undertaken. Which of the statements given above is/are correct?.
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
71. **New Swarnima Special Scheme is meant for**
 (a) OBC Women
 (b) Adolescent Girls
 (c) Destitute Women
 (d) Orphaned Children
72. **Lai Haraoba is**
 (a) It is an ancient martial art and a living tradition in N. E. Assam.
 (b) It is a Manipuri festival celebrated to please traditional deities.
 (c) It is a traditional dye printing used in cotton sarees and dhotis which is prevalent in N. E. India.
 (d) It is drum festival of Meghalaya.
73. **1. Prime Minister's Employment Generation Programme (PMEGP) is the scheme by Central Government which is made by merging two different schemes i.e. Prime Minister Rojgar Yojna (PMRY) and Rural**

- Employment Generation Programme (REGP).**
 2. The Scheme will be implemented by Khadi and Village Industries Commission (KVIC), a statutory organization.
 3. The Scheme will be under administrative control of the Ministry of MSME.
 Which of the above statement/s is/are correct?
 (a) 1 and 2
 (b) 1, 2 and 3
 (c) 2 and 3
 (d) 1 and 3
74. Which of the following federal principles are not found in Indian federation?
 1. Federal government can redraw the boundaries of the Indian Union by forming new states.
 2. Bifurcation of the Judiciary between the Federal and the State government
 3. The Union cannot be destroyed by any state seceding from the Union at its will.
 4. The Federal and the State government have their own officials to administer their respective law and functions.
 (a) 2 and 4 only
 (b) 1 and 3 only
 (c) 2 only
 (d) 2 and 3 only
75. Related to Pradhan Mantri Krishi Sinchai Yojna is/are
 1. Each farmer will be available with enough water
 2. More Crop Per Drop
 3. Reusing treated municipal waste water
 (a) 1 & 2 only
 (b) 2 only
 (c) 1, 2, 3
 (d) 1 & 3 only
76. A democratic polity is based on the doctrine of popular sovereignty. With regard to this principle, consider the following
 1. Plebiscite
 2. Referendum
 3. Recall
 4. Initiative
 Which of the above is/are used in direct democracy?
 (a) 2, 3 and 4 only
 (b) 1 and 2 only
 (c) 1, 2 and 3 only
 (d) 1, 2, 3 and 4
77. 1. National Rural Livelihood Mission is funded by World Bank.
 2. National Rural Livelihood Mission (NRLM) is implemented by the Ministry of Rural Development.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
78. (1) Giant Reef Manta Rays, a variety of fish, are found in the Bay of Bengal.
 (2) It has been listed as 'vulnerable' on the list of the threatened species of the International Union for Conservation of Nature (IUCN).
 Which of the statements given above is/are incorrect?
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
79. The National Commission for Protection of Child Rights (NCPCR) was set up by
 (a) An act of Parliament
 (b) Presidential Order
 (c) Amending the Constitution
 (d) Societies Registration act 1860
80. Mahatma Gandhi Marine National Park is in
 (a) Kerala
 (b) Anadaman & Nicobar
 (c) Gujarat
 (d) Tamilnadu
81. "Planet 50-50" that was in news in recent times is related to
 (a) Climate Change
 (b) Gender Equity
 (c) Global Dimming

- (d) Old age welfare
82. **Bedaquiline drug has been introduced by Health Ministry to combat**
(a) HIV/AIDS
(b) MDR TB
(c) Leukemia
(d) Cervical Cancer
83. **The Integrated Child Development Service (ICDS) Scheme provides for**
1. supplementary nutrition
2. immunization
3. pre-school education
(a) 1 & 2 only
(b) 2 only
(c) 1, 2, 3
(d) 1 & 3 only
84. **Consider the following statements:**
(1) Rani Gaidinliu became the leader of the Heraka Movement after its charismatic leader Jadonang was executed by the British.
(2) The Heraka Movement was not aware of the Civil Disobedience Movement in British India.
(3) Rani Gaidinliu was given the Bharat Ratna Award posthumously.
(4) The title 'Rani' was conferred on her by Subhash Chandra Bose.
Which of the statements given above are correct?.
(a) 1 and 2
(b) 1 and 3
(c) 2 and 3
(d) 1, 3 and 4
85. **Which of the following is an initiative of the Central Board of Secondary Education (CBSE) to enable girl students to soar to higher education from schools, and to eventually take various leadership roles in future?.**
(a) OPERATION SMILE
(b) DIDI POCHOO
(c) UDAAN
- (d) None of these
86. **Expert panel under Arvind Subramanian was formed to examine**
(a) Educational reforms
(b) Civil Services Reforms
(c) Pulses Crisis
(d) None of these
87. **Consider the following w.r.t. 'Mild Hybrid Vehicles'.**
1. Mild-hybrids are 7-15% more fuel efficient as compared to conventional hybrid systems that can run on pure electric power for short distances too.
2. Government has withdrawn subsidy given to mild hybrid vehicles under FAME India (Faster Adoption and Manufacturing of Hybrid and Electric vehicles in India) scheme.
Which of the above statements is/are correct?.
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
88. **SPIC MACAY is**
(a) a voluntary youth movement to showcase the culture of India, to the masses, especially to the younger generations.
(b) It is a Berlin based tourist body which promotes tourism in Asia Pacific.
(c) It is a Global initiative created to spread awareness about throat cancer.
(d) a non-profit organization which works to promote legal awareness, based in Bangalore.
89. **Saksham Scheme is for**
(a) Adolescent Boys
(b) Adolescent Girls
(c) Destitute Women
(d) Orphaned Children
90. **Consider the following statements:**
(1) Pangolins are covered with tough and

overlapping scales.

(2) Globally, the pangolins are the most threatened mammals.

(3) Pangolins do not eat ants and termites. Which of the statements given above is/are correct?.

- (a) 1 only
- (b) 2 only
- (c) 1 and 2
- (d) 1, 2 and 3

91. Related to Swarna Bharat Yojana is/are
1. to reduce dependence on imported gold
 2. Gold Monetization Scheme
 3. Sovereign Gold Bond Scheme
- (a) 1 & 2 only
 - (b) 2 only
 - (c) 1, 2, 3
 - (d) 1 & 3 only

92. Consider the following statements:
- (1) The headquarters of the Animal Welfare Board of India is situated in Lucknow.
 - (2) Article 51(f) of the Indian Constitution gives the constitutional duty of treating animals with compassion.
 - (3) The Prevention of Cruelty to Animals Act extends to the whole of India, including the state of Jammu and Kashmir.
- Which of the statements given above is/are incorrect?
- (a) 1 only
 - (b) 2 only
 - (c) 1 and 3
 - (d) 1, 2 and 3

93. "Smile Train" is an initiative of
- (a) Ministry of Railways to rescue/rehabilitate orphaned children from Railway Platforms.
 - (b) Ministry of Home Affairs (MHA) to rescue/rehabilitate missing children
 - (c) Ministry of Agriculture to help small landowners during failure of Monsoons
 - (d) None of these

94. UDAN would be achieved through

- (a) Financial Stimulus
- (b) Viability Gap Funding
- (c) Neither (a) nor (b)
- (d) Both (a) & (b)

95. With reference to 'Natural Rate of Unemployment', consider the following statements :-
1. It is the level of unemployment in an economy that is just consistent with a stable rate of Inflation.
 2. It is the unemployment that prevails when all markets in the economy are in equilibrium.
- (a) 1 & 2
 - (b) 2 only
 - (c) 1 only
 - (d) None of the above
96. "Agricultural Marketing and Farmer Friendly Reforms Index" to rank States and Union Territories has been launched by
- (a) NITI Aayog
 - (b) Ministry of Rural Development
 - (c) Ministry of Agriculture
 - (d) None of these
97. The focus area of Mahila Samakhya Programme is
- (a) Increase public awareness regarding laws and schemes relating to women.
 - (b) Provide micro-finance services to poor women.
 - (c) Promote social welfare activities and implementing welfare programmes for women.
 - (d) Education and empowerment of women in rural areas.
98. Which of the following is/are true?.
1. Mining Surveillance System is a Non-Satellite based system.
 2. It is developed by DRDO.
- (a) 1 and 2 are correct
 - (b) Only 1 is correct
 - (c) Only 2 is correct
 - (d) None is correct

99. **India Newborn Action Plan (INAP) targets**
- (a) Single Digit Neo-natal Mortality Rate by 2045
 - (b) Single Digit Neo-natal Mortality Rate by 2025
 - (c) Single Digit Neo-natal Mortality Rate by 2030
 - (d) Single Digit Neo-natal Mortality Rate by 2020
100. **'Global Competitiveness Index' is issued by**
- (a) World Bank
 - (b) World Economic Forum
 - (c) IMF
 - (d) WTO

Crackingias.com

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Raja Sir's
CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

SOLID 60 - PRELIMS 2017
JET FAST Classes from May 15, 2017
@ Rs. 1000/- ONLY
A SURE SHOT COURSE

ONLY UNIQUE COURSE @ CHENNAI
50 HOURS CLASS

- * General Science 900 only
- * India Year Book if you Join before
- * Economic Survey April 10 2000
- * PIB Coverage Potential questions

Target to Clear Prelims
Not to Top Prelims

CALL/SMS/ Whats App Yout Name to : **98845 54654**

2nd Floor, New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar, CH-40. Land mark:- ABOVE ADYAR BAKERY

1. **Which is/are incorrect?**
 - (a) The magnetic resonance imaging (MRI) does not expose the patient to potentially harmful ionizing radiations.
 - (b) Most pacemakers run on lithium batteries.
 - (c) Both (a) and (b)
 - (d) Neither (a) nor (b)

2. **Consider the following Bills:**
 1. Bills for the formation of new States or recognition of state boundaries.
 2. Money Bills.
 3. State Bills imposing restrictions upon the freedom of trade.
 4. Bills involving expenditure from the Consolidated Fund of India.**WHICH of these Bills, previous sanction or recommendation of the President of India is required?**
 - (a) only 1
 - (b) 2 and 3
 - (c) 1, 2 and 3
 - (d) 1, 2, 3 and 4

3. **Who among the following launched the Mahapap Bal Vivah (Child marriage: The Cardinal Sin) to fight against child marriage?.**
 - (a) Raja Rammohan Roy
 - (b) B.M. Malabari
 - (c) J.P. Grant
 - (d) Iswar Chandra Vidyasagar

4. **The World's Women report is released**
 - (a) UN Women
 - (b) Jointly by ILO & WHO
 - (c) World Bank
 - (d) None of these

5. **Consider the following.**
 1. Judge of Supreme Court & Solicitor General.
 2. Solicitor General & Attorney General of India.
 3. Judge of Supreme Court & Attorney General of India.**Which of these combinations have similar qualifications?**
 - (a) 1
 - (b) 2
 - (c) 3
 - (d) None of these

6. **A current account deficit means**
 1. low level of national savings
 2. foreign savings that promote growth through higher investment
 3. a negative net sales abroad.
 - (a) 1 and 2
 - (b) 1 and 3
 - (c) 2 and 3
 - (d) 1, 2 and 3

7. **Which one of the following procedures is valid for passing a Constitutional amendment seeking abolition of the Vidhan Parishad?**
 - (a) Resolution in the Rajya Sabha and consent of each house of the Parliament by majority of the members present and voting
 - (b) Resolution in the Vidhan Sabha by a majority of the total membership of the house and by majority of not less than two-thirds of the members of the house present and voting, followed by consent of each house of the Parliament by the majority of the members present and voting
 - (c) Resolution in either house of the Parliament and consent of each house of Parliament by absolute majority, coupled with two-third majority of the members present and voting
 - (d) Resolution in the Vidhan Parishad and consent of the Vidhan Sabha by simple majority, followed by consent of the each house of Parliament by simple majority.

8. **Hidden Peak is in**
 - (a) Karakoram Range
 - (b) Ladakh Range
 - (c) Zaskar Range
 - (d) Siwalik Range

9. **Which of the following are correct about Surendranath Banerjee?**
 1. He was known by the name Rashtraguru.
 2. He cleared the Indian Civil Service examinations in 1869.
 3. He was known as the Indian Burke.
 4. He opposed the Morley-Minto reforms 1909.**Select the correct answer using the code given below:**
 - (a) 1,2,3 and 4
 - (b) 1, 2 and 3

- (c) 2 and 4
(d) 1, 3 and 4
10. **The armed action, codenamed Operation Vijay is related to**
(a) Annexation of Goa
(b) Annexation of Hyderabad
(c) Annexation of Junagadh
(d) None of these
11. **Who started the publication of Vande Mataram from Geneva?.**
(a) Madanlal Dhingra
(b) Lala Hardayal
(c) Sardar Singh Rana
(d) Madam Cama
12. **These are finest examples of Vesara style**
1. Virupaksha temple of Pattadakal
2. Hoysala temples at Belur
3. Papanatha temple of Pattadakal
(a) 1, 2 & 3
(b) Only 1 & 2
(c) Only 2 & 3
(d) None of these
13. **The first Indian state to have its Human Development Report prepared and released by Amartya Kumar Sen in Delhi is**
(a) West Bengal
(b) Kerala
(c) Madhya Pradesh
(d) Andhra Pradesh
14. **The 84th Amendment Act has frozen the total number of existing seats in the Lok Sabha on the basis of 1971 Census. They shall remain unaltered till the first Census to be taken after the year**
(a) 2022
(b) 2026
(c) 2020
(d) 2024
15. **Which of the following is/are true about deadly Sarin gas used in Syria recently?.**
1. It contains phosphorus.
2. It was first produced massively during World War II by Nazi Germany.
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
16. **What is/are true about Comets?**
1. Comets do not have Rings and Moons.
2. Comets come from the Oort Cloud and the Kuiper Belt.
(a) 1 and 2 are true.
(b) Only 1 is true.
(c) Only 2 is true.
(d) Neither 1 nor 2 is true.
17. **Match List I with List II**
- | List I | List II |
|--------------------------|---------------------|
| Lingaraja Temple | 1. Chandellas |
| Konark Sun temple | 2. Narshimha Deva I |
| Kandariya Mahadev temple | 3. Ganga rulers |
- (a) 3 - 2 - 1
(b) 2 - 3 - 1
(c) 1 - 2 - 3
(d) 3 - 1 - 2
18. **The Kamraj Plan was a plan formulated in 1963 by the then**
(a) Union Cabinet Minister, whereby a new constitution for the Indian National Congress was proposed
(b) Chief Minister of Madras, whereby the senior ministers were asked to leave government and work to rejuvenate the party
(c) Chief Minister of Madras, whereby a new set of principles for accepting donations for the party work was proposed
(d) Chief Minister of Madras to root out corruption from India
19. **The concept of Curative petition was evolved by the Supreme Court of India in the matter of**
(a) Rupa Ashok Hurra case
(b) Minerva Mills Case
(c) Gopalan Case
(d) Bhaskernath Case
20. **Under which of the following circumstances can the President of India exercise discretionary power?**
1. When there is dispute between the Prime

Minister and Cabinet Minister

2. When there is no majority party in the Lok Sabha and he has to choose a Prime Minister
3. When the ruling party loses its majority in the Lok Sabha
4. When the President decides to refer the advice of the Union Cabinet back for reconsideration

- (a) 1 only
- (b) 1 and 2
- (c) 2, 3 and 4
- (d) 2 and 4

21. The number of judges of each High Court is determined by the
- (a) President
 - (b) Governor
 - (c) National Judicial Appointments Commission
 - (d) State Legislature

22. Consider the following statements w.r.t. SDR loan from IMF.

1. A member can borrow up to 200 percent of its quota annually and 600 percent cumulatively.

2. The smallest member of the IMF is Tuvalu.

Which of the above statements is/are true?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

23. English is the official language of which of the following states?

- (a) Manipur
- (b) Nagaland
- (c) Karnataka
- (d) Andhra Pradesh

24. Who can purchase Treasury Bills?.

1. Individuals.
2. Trusts.
3. Corporate bodies.

- (a) 1, 2, 3
- (b) 1 & 2
- (c) 2 & 3
- (d) None of these

25. The core of earth is
1. $1/3^{\text{rd}}$ of earth's mass.

2. $1/6^{\text{th}}$ of the earth's volume.

- (a) 1 & 2 are true.
- (b) Only 2 is true.
- (c) Only 1 is true.
- (d) Neither 1 nor 2 is true.

26. In Egypt, ancient mummies can be found to have their arteries intact due to well preserved

- (a) fibroblast fibers
- (b) fossilized blood
- (c) mineralized blood
- (d) elastin fibres

27. The issue of whether a commitment made by a Minister on the floor of the House has been fulfilled or not is decided by the

- (a) Consultative Committee attached to the Ministry concerned
- (b) Select Committee dealing with the Ministry concerned
- (c) Political Affairs Committee of the Union Cabinet
- (d) Committee on Public Assurances

28. As an alternative to the partition of India, Gandhiji Suggested to Mount batten that he

- (a) postpone granting of independence
- (b) invite Jinnah to form the government
- (c) invite Nehru and Jinnah to form coalition government
- (d) To give autonomy to Pakistan under Indian dominion

29. Which of the following is/are correct statement (s)?.

- (a) Vote on Account is same as Interim budget.
- (b) Legally there is no distinction between caretaker government and a normal one.
- (c) Both (a) & (b) are correct.
- (d) Neither (a) nor (b) is correct

30. Match List I with List II

List I
(Amendment)

53rd
Amendment

List II
(Purpose)

1. Extension of reservation for SC and ST and Anglo-Indians in the House of

- People and in the State Assemblies for a period often years.**
- 61st Amendment**
74th Amendment
79th Amendment
- 2. Insertion of new Article 371c in the Constitution**
3. Lowering of voting age from 21 to 18
4. Constitution of three types of Municipalities
- (a) 2- 3 - 1 - 4
(b) 3- 2 - 1 - 4
(c) 2 - 3 - 4 - 1
(d) 3 - 2 - 4 - 1
31. **Andaman Nicobar island is separated from Sumatra by**
(a) Great channel
(b) Palk bay
(c) Indira point
(d) None of these
32. **Which of the following is the correct order of decreasing wavelength?.**
(a) Radio wave, Microwave, Infrared rays, UV rays,
(b) UV rays, Radio wave, Microwave, Infrared rays
(c) Microwave, Infrared rays, UV rays, Radio wave
(d) Infrared rays, UV rays, Radio wave, Microwave
33. **Delimitation Commission consists of**
(a) Chief Election Commissioner of India and two judges of Supreme Court.
(b) Chief Election Commissioner of India and two judges of Supreme Court or any of the High Courts in India.
(c) Chief Election Commissioner of India and three judges of Supreme Court or any of the High Courts in India.
(d) Chief Election Commissioner of India and three judges of Supreme Court.
34. **What was the reason for rejection of the Cripps Plan by the Indian National Congress?.**
(a) It granted dominion status to the Indian Union
(b) It granted dominion status to the Provinces
(c) It indirectly conceded the demand for partition
(d) It was aimed at continuing British Rule even after the War
35. **The Cabinet Mission Plan was accepted by**
(a) Congress
- (b) Muslim League
(c) Both (a) and (b)
(d) Neither (a) nor (b)
36. **Gandhi formed the Passive Resistance Association**
(a) As a protest against the internment of Mrs. Besant and her co-workers.
(b) As a protest against the Jalianwala Bagh tragedy.
(c) As a protest against the Rowlatt Act.
(d) To conduct the campaign of Civil Resistance in South Africa.
37. **(1) India is the second richest country in bamboo genetic resources after China. (2) Mizoram is set to be developed as 'bamboo State'.**
(a) Only (1) is true
(b) Only (2) is true
(c) Both (1) & (2) are true
(d) Neither (1) Nor (2) is true
38. **Who can remove Election Commissioner from his office?.**
(a) Chief Election Commissioner
(b) President of India
(c) Supreme Court
(d) President of India on the recommendation of Chief Election Commissioner
39. **The presence of sulphur in gunpowder**
(a) decreases the ignition temperature
(b) increases the ignition temperature
(c) increases explosiveness of the gunpowder.
(d) makes the powder smokeless.
40. **Consultative Committees for ministries of the Government get the information regarding assurances etc. from**
(a) the President
(b) presiding officers of Lok Sabha & Rajya Sabha
(c) the department of Parliamentary affairs
(d) the two Houses of the Parliament, on a motion adopted on that behalf.
41. **Which of the following is/are the role of Lead Botanical Gardens?**
(a) Serve as centers of training

- (b) Help conserve natural vegetation specially Rare, Endangered and Threatened species
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
42. The emergency period in India in 1975 lasted for
 (a) 22-months
 (b) 21-months
 (c) 20-months
 (d) 23-months
43. Which of the following are correct about federalism?
 1. It implies protection and co-determination.
 2. It provides for additional controls of government, bureaucracy and parliament.
 3. It makes the process of government a continuing task of adjustment and coordination of competing interests.
 4. It ensures uniformity of law and administration.
 Select the correct answer using the code given below:
 (a) 1,2,3 and 4
 (b) 1, 2 and 3
 (c) 2 and 4
 (d) 1, 3 and 4
44. Identify the correct statement (s)
 (a) Prime Minister's resignation involves the resignation of all the Ministers.
 (b) The President is bound to accept the decision taken by the Cabinet.
 (c) Both (a) & (b) are correct.
 (d) Neither (a) nor (b) is correct
45. Which of the following is/are correct statement (s) w.r.t. Special Leave Petitions in India?
 (a) They are a "residual power" in the hands of Supreme Court.
 (b) The aggrieved party cannot claim special leave to appeal under Article 136 as a right.
 (c) Both (a) & (b) are correct
 (d) Neither (a) nor (b) is correct
46. The object of the adjournment motion in Parliament is to
 (a) collect information from the ministers
 (b) make a cut in the budget proposals
 (c) criticize a particular policy of the government
 (d) topple the government
47. Consider the following statements about Union-State relations in India:
 1. In case of overlapping of a matter between the three kinds of subjects of legislation, predominance has been given to the Union Legislation.
 2. In the concurrent sphere, in the case of repugnancy between a Union and a State law relating to the same subject, the former prevails, even if the State law was reserved for the assent of the president and has received such assent.
 3. The vesting of residual power under the Indian Constitution follows the precedent of Canada and not that of the Government of India Act, 1935.
 Which of the statements given above are correct?
 (a) 1 and 2
 (b) 1 and 3
 (c) 2 and 3
 (d) 1, 2 and 3
48. Dhanvantri, a renowned physician of ancient-India, adorned the court of
 (a) Samudragupta
 (b) Kumara Gupta
 (c) Chandragupta Vikramaditya
 (d) Skanda Gupta
49. When martial law is imposed, Parliament cannot make law in respect of which one of the following matters?
 (a) Indemnify any person in respect of any act done by him in connection with the maintenance of order in the area where martial law was in force
 (b) Parliament can by law validate any sentence passed when martial law was in force in the area
 (c) A law of Parliament can validate forfeiture ordered when martial law was in force in the area
 (d) Any act done under martial law can be validated by Parliament by law
50. The striking surface on the matchbox primarily contains
 (a) Monoclinic Sulphur
 (b) Rhombic Sulphur

- (c) White Phosphorus
(d) Red Phosphorus
51. Which of the following is a largest component of external commercial debt?
 (a) Short-term trade credit
 (b) Securitised Instruments
 (c) NRI deposit
 (d) Commercial borrowings
52. What is/are true?
 1. The setting up of legislative councils in States has to be cleared by an Act of Parliament.
 2. Currently, only seven States follow the bicameral system.
 (a) Only 1 is true.
 (b) Only 2 is true.
 (c) 1 & 2 are true
 (d) Neither 1 nor 2 is true
53. The qualifications for the members of Finance Commission
 (a) are laid down in the Constitution of India
 (b) can be prescribed by the Parliament of India
 (c) can be prescribed by the President of India
 (d) can be prescribed by Union Finance Minister
54. Which of the following is/are true?
 1. Lord Canning was the Governor General during the Great Revolt of 1857.
 2. The Press Act of June 1857, subjected all newspapers, English as well as vernacular to the same censorship.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) Both 1 and 2 are correct
 (d) Both 1 and 2 are incorrect
55. Identify the correct statement (s)
 (a) Bhakti movement brought in a system of pahul.
 (b) Geet and qawali were the literary compositions of Bhakti Saints.
 (c) Both (a) & (b) are correct.
 (d) Neither (a) nor (b) is correct
56. Which of the following can be amended only by Special majority of parliament with consent of states?
 (a) Directive Principles of State Policies
 (b) Constitution and powers of the Supreme Court.
 (c) Formation of new states.
 (d) Delimitation of constituencies.
57. Consider the following statements.
 1. A man can see his full image in a plane mirror whose height is half of his height.
 2. Concave mirror is used as shaving mirror.
 Which of the above statements is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
58. Which of the following is/are true?
 (a) National Planning Committee appointed by Subhas Bose appointed was against the Charkha Policy of Gandhi.
 (b) National Planning Committee was chaired by Rajendra Prasad.
 (c) Only (b) is true and (a) is false.
 (d) Only (a) is true and (b) is false.
59. Which of the following come(s) under the original jurisdiction of Supreme Court?
 1. Disputes between two or more States.
 2. Public Interests Litigation
 3. Enforcement of Fundamental Rights
 (a) 1 & 2
 (b) 1, 2 & 3
 (c) 1 & 3
 (d) Only 1
60. Which one of the following committees is not a Standing Committee of the parliament?
 (a) Public Accounts Committee
 (b) Estimates Committee
 (c) Committee on public Undertakings
 (d) Consultative Committee to the Ministry of Finance
61. Which of the following is/are correct statement (s)?
 (a) Speaker, Lok Sabha is the President of all the Parliamentary Forums.
 (b) Each Parliamentary Forum consists of 31 Members (excluding the President and the ex-officio Vice-Presidents) out of whom not more than 21 are from Lok Sabha and not more than 10 are from Rajya Sabha.

- (c) Both (a) & (b) are correct.
(d) Neither (a) nor (b) is correct
62. Which of these is/are true?
1. The bulk of Brazil is well fit with Gulf of Guinea.
2. East coast of South America can be fitted with West coast of Africa.
3. Himalaya was formed due to folding in sediments of Tethys sea.
(a) 1 & 2
(b) 1, 2 & 3
(c) Only 2
(d) 2 & 3
63. Which one of the following States has passed a legislation to confiscate the property of corrupt officials and to open schools in these properties? .
(a) Haryana
(b) Kerala
(c) Bihar
(d) Rajasthan
64. The members of which one of the following Standing Committees are chosen exclusively from the members of the Lok Sabha?
(a) Public Accounts Committee
(b) Committee on Estimates
(c) Committee on Public Undertakings
(d) Committee on Delegated Legislation
65. The Constitution ordains under Art.93 that the Lok Sabha shall choose
(a) Speaker
(b) Deputy Speaker
(c) Both (a) & (b)
(d) Neither (a) nor (b)
66. Who among the following has given the "Capability Approach" to development?
(a) Amartya Sen
(b) John Rawls
(c) Robert Nozick
(d) None of these
67. Which of the following made English the official and literary language of India?
(a) Macaulay Report
(b) Government Resolution in 1835
(c) Woods Despatch
(d) Bentinck Resolution in 1828
68. Which of the following statements is/are correct about Nobel Prize?
1. Nobel Prize in Physiology or Medicine was established later.
2. Prize may not be shared among more than three people.
(a) Only 1
(b) Only 2
(c) 1 & 2
(d) Neither 1 Nor 2
69. Which of the following is/are correct statement (s)?
(a) The High Court can frame the required rules to carry out its judicial functions
(b) There is no mention of PIL in the Constitution
(c) Both (a) & (b) are correct
(d) Neither (a) nor (b) is correct
70. Which of the following are matters on which the Indian Parliament has the power to modify provisions of the constitutions by a simple majority?
1. Alteration of names, boundaries and areas of States
2. Appointment of additional judges
3. Abolition of the second chamber of a State Legislature
4. Administration of Scheduled Areas
(a) 1, 2 and 3
(b) 1,2 and, 4
(c) 1, 3 and 4
(d) 2, 3 and 4
71. Identify the incorrect one(s) about Curative Petition.
(a) It is the last judicial resort available for redressal of grievances in court.
(b) It is normally decided by judges' in-chamber.
(c) No time limit is given for filing Curative petition.
(d) Both (a) and (c).
72. "Breakdown Plan" in Indian History refers to
(a) Rajaji formula
(b) Wavell Plan
(c) Cabinet Mission Plan
(d) Cripps Proposals

73. The red colour in the sky at sunset (and sunrise) is due to
- reddish-orange light is most scattered by the atmosphere.
 - reddish-orange light is least scattered by the atmosphere.
 - during that time sun emits only reddish-orange light.
 - during that time sun absorbs only reddish-orange light.
74. The theoretical and political basis for the change in communist politics in India was laid in early 1936 by a document popularly known as
- Gandhi .vs. Lenin
 - Dun-Bradley Thesis
 - In-comintern
 - Mc Duverger Thesis
75. Who criticized Gandhiji for refusing to recognize the conflict of classes, for preaching harmony among the exploiters and the exploited, and for putting forward the theories of trusteeship by, and conversion of, the capitalists and landlords?.
- S.A. Dange
 - Lala Lajpat Rai
 - Jawaharlal Nehru
 - Subash Chandra Bose
76. The popular "Nalgonda" technique is used to
- Treat Malaria using stem bark
 - Defluoridate water
 - Bioremedy the household effluent
 - Remove radioactivity
77. In 1940 she offered individual Satyagraha at Faizabad and was imprisoned for 2 years. During the Quit India Movement, she went underground and rendered remarkable service of secretly organizing anti-British resistance. Who is referred here?.
- Aruna Asaf Ali
 - Usha Mehta
 - Sucheta Kriplani
 - Bina Das
78. Consider the following statements:
- The Comptroller and Auditor General of India has no control over the issue of withdrawal of money from the Consolidated fund of India.
 - The term of the office of the Comptroller and Auditor General of India has been fixed by an Act enacted by parliament.
- Which of the statements given above is/are true?.
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
79. The Chief Information Commissioner and Information Commissioners are appointed by the President on the recommendation of a committee consisting of
- The Prime Minister, who shall be the Chairperson of the committee
 - The Leader of Opposition in the Lok Sabha
 - A Union Cabinet Minister to be nominated by the Prime Minister
- Only 1 & 2
 - Only 3
 - 1, 2 & 3
 - Only 1 & 3
80. Match List I with List II
- | List I | List II |
|-----------|-----------------------|
| Koldihawa | 1. Bone industry |
| Chirand | 2. Terracotta objects |
| Burzahom | 3. Rice |
- 3 - 2 - 1
 - 3 - 1 - 2
 - 1 - 2 - 3
 - 1 - 3 - 2
81. Which continent is not formed from the Gondwana land?
- Europe
 - South America
 - Africa
 - Antarctica
82. Kathak and Manipuri are mostly related to the stories of
- Ramayana and Mahabharata
 - Krishna and his leela
 - Both (a) & (b).

- (d) Neither (a) nor (b).
83. Consider the following statements.
 (i) In 1907, Tarak Nath Das founded the Indian Independence league in California.
 (ii) He started publishing "Free Hindustan".
 Which of the above is / are true?
 (a) Only (i)
 (b) Only (ii)
 (c) Both (i) and (ii)
 (d) Neither (i) nor (ii)
84. Provisional Parliament of India was represented by
 (a) Lok Sabha
 (b) Rajya Sabha
 (c) Both (a) and (b)
 (d) Constituent Assembly
85. Which of the following is/are correct statement (s)?
 (a) Vote-on-account deals only with the expenditure side of the government's budget.
 (b) Vote-on-account cannot announce any new schemes.
 (c) Both (a) & (b) are correct.
 (d) Neither (a) nor (b) is correct.
86. Match List I with List II
- | List I | List II |
|------------------|------------------|
| Hemachandra Suri | 1. Ulta Basi |
| Jona Raja | 2. Jain Scholar |
| Kabir | 3. Rajatarangini |
- (a) 3 - 2 - 1
 (b) 2 - 3 - 1
 (c) 1 - 2 - 3
 (d) 3 - 1 - 2
87. The Indian President is elected
 (1) indirectly by an electoral college
 (2) directly by an electoral college
 (3) through FPTP system
 (4) through alternative voting model
 (a) 1 & 3
 (b) Only 1
 (c) 2 & 3
 (d) 2 & 4
88. In the discharge of his functions, the Attorney General is assisted by
 (a) A Solicitor General
 (b) A Solicitor General and one Additional Solicitor General
 (c) A Solicitor General and two Additional Solicitor Generals
 (d) None of these
89. In ancient Indian historical geography the name 'Ratnakara' denoted
 (a) The Arabian Sea
 (b) the Bay of Bengal
 (c) the Indian Ocean
 (d) The confluence of the Ganga, the Yamuna and Saraswati at Haridwar.
90. The supreme court of India propounded the doctrine that "Within their respective spheres, the union and the state legislatures are made supreme and they should not encroach on the sphere reserved for other" in the case of State of Rajasthan vs. Chawla in 1959. This is known as
 (a) Doctrine of pith and substance
 (b) Doctrine of colorable legislation
 (c) Doctrine of eclipse
 (d) None of these
91. 1. Arms Act
 2. Vernacular Press Act
 3. Delhi Durbar
 The notable incidents of Lord Lytton was/were:
 (a) 1, 2, 3
 (b) 2
 (c) 2 & 3
 (d) 1 & 2
92. Who persuaded Gandhi to come to Champaran to investigate the Tinkathia issue?
 (a) Raj Kumar Shukla
 (b) Rajendra Prasad
 (c) Anugrah Narayan Sinha
 (d) Brajkishore Prasad
93. Crooke's glass that cuts harmful ultra violet rays that are harmful to eyes contains
 (a) Cerium Oxide
 (b) Magnesium Oxide
 (c) Aluminum Oxide
 (d) Titanium di Oxide

94. If in an election to a State Legislative Assembly the candidate who is declared elected loses his deposit, it means that
 (a) the polling was very poor
 (b) the election was for a multi-member constituency
 (c) the elected candidate's victory over his nearest rival was very marginal
 (d) a very large number of candidates contested the election
95. Which of the following is/are anti-TB drug(s)?
 (a) Isoniazid
 (b) Rifampicin
 (c) Both (a) & (b)
 (d) Neither (a) Nor (b)

96. **9884554654**

Crackingias.com

SERIOUS IAS ASPIRANTS
 >> CAN JOIN US <<

SOLID 60 - PRELIMS 2017

JET FAST Classes from April 20, 2017

@ Rs. 1000/- ONLY

A SURE SHOT COURSE

ONLY UNIQUE COURSE @ CHENNAI
 30 HOURS CLASS

- * General Science 900 only
- * India Year Book if you Join before
- * Economic Survey April 10 2000
- * PIB Coverage Potential questions

Target to Clear Prelims
Not to Top Prelims

CALL/SMS/ Whats App Yout Name to : 98845 54654

2nd Floor. New.No.59 (Old no. 1228), 18th Main Road,
 Anna Nagar. CH-40. Land mark- ABOVE ADYAR BAKERY

Identify the incorrect pair (s).

- (a) Widow Remarriage Act - Justice M.G. Ranade
 (b) Declaring the practice of Sati a punishable

offence - Pandit Ishwar Chandra Vidyasagar

- (c) Both (a) & (b)
 (d) Neither (a) Nor (b)

97. The Sixth Schedule to the Constitution of India makes special administrative provisions in regard to the tribal areas in
 (a) Assam, Meghalaya, Tripura and Mizoram
 (b) Meghalaya, Assam, Nagaland and Manipur
 (c) Tripura, Manipur, Mizoram and Meghalaya
 (d) Arunachal Pradesh, Nagaland, Assam and Tripura

98. Which of the following states has no Panchayati Raj institution at all?
 (a) Assam
 (b) Kerala
 (c) Tripura
 (d) Nagaland

99. Right to property was removed from the list of Fundamental Rights during
 (a) Indhira Gandhi Government
 (b) Morarji Desai Government
 (c) Gulzari Lal Nanda Government
 (d) Emergency period

100. Consider the following statements about Parliament Secretary.

1. A Parliament Secretary is a Senior Civil Servant.

2. He holds the rank of Minister of State

Which of the above statements is/are true?

- (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2

1. **Reusing cooking oil is unhealthy because**
 - (a) bacteria feeds on food particles left in the oil and can cause food poisoning.
 - (b) reused oil contains free radicals that can damage cells and lead to increased cancer risk
 - (c) Both (a) and (b)
 - (d) Neither (a) nor (b)

2. **Which of the following is/are true?**
 - (a) Islamic Military Alliance to Fight Terrorism is a Sunni Muslim coalition.
 - (b) Pakistan is not a member of this coalition.
 - (c) Both (a) & (b)
 - (d) Neither (a) nor (b)

3. **Brent Crude is a major trading classification of sweet light crude oil that serves as a major benchmark price for purchases of oil worldwide. Consider the following statements w.r.t. Brent Crude.**
 1. It has low density.
 2. It has low sulfur content.
 3. It is extracted from the North Sea.**Which of these statements are correct?**
 - (a) 1 and 2
 - (b) 1 and 3
 - (c) 2 and 3
 - (d) 1, 2 and 3

4. **Who among the following can alter the boundaries of a national park?**
 1. Parliament
 2. State legislature
 3. Ministry of environment and forest.
 - (a) 1 and 2 only
 - (b) 1 and 3 only
 - (c) 2 only
 - (d) 2 and 3 only

5. **Delimitation Commission is appointed by**
 - (a) President to determine the geographical size of the constituencies based on their population.
 - (b) Election Commission to determine the geographical size of the constituencies based on their population.
 - (c) Parliament to determine the geographical size of the constituencies based on their population.
 - (d) President in consultation with the Chief Election Commissioner to determine the geographical size of the constituencies based on their population.

6. **In Indian context, the concept of 'due process of law' was introduced in which of the following?**
 - (a) Menaka Gandhi Case
 - (b) 24th Amendment Act
 - (c) Minerva Mills Case
 - (d) 44th Amendment Act

7. **World's first 'Gender Literature Festival' held in**
 - (a) India
 - (b) USA
 - (c) China
 - (d) Russia

8. **1. M.G. Ranade was a mentor to Gopal Krishna Gokhale.**
2. M.G. Ranade founded the Poona Sarvajanik Sabha.
 - (a) Only 1 is true.
 - (b) Only 2 is true.
 - (c) 1 & 2 are true
 - (d) Neither 1 nor 2 is true

9. **The Little Rann of Kutch is the only home of the**
 - (a) Great Indian Bustard.
 - (b) Blackbuck.
 - (c) Flamingo.
 - (d) Indian Wild Ass

10. **It becomes first state to draft law for internal security.**
 - (a) Madhya Pradesh
 - (b) Telangana
 - (c) Andhra Pradesh
 - (d) Maharashtra

11. **The radical wing of the Congress Party with Jawaharlal Nehru as one of its main leaders, founded the 'Independence for India League' in opposition to**
 - (a) the Gandhi-Irwin Pact
 - (b) the Home Rule Movement

- (c) the Nehru Report
(d) the Montford reforms
12. **What is Pteris Vittata?.**
 (a) It is plant that is a source of bio-diesel.
 (b) It is an herb that is being used to treat oil spills.
 (c) It is a fern that can be used to purify arsenic containing water.
 (d) It is a disease in fish caused by algal decay.
13. **Top most global risks as per WEF's Global Risks Report 2017 is**
 (a) Chronic fiscal imbalances
 (b) Massive data fraud/theft
 (c) Large terrorist attacks
 (d) Extreme weather
14. **1. Neutrinos are the second most widely occurring particle in the universe, only second to photons, the particle which makes up light.
 2. A neutrino is about 17 billion times lighter than a neutron.
 3. Due to weak interact of neutrinos, it is impossible to detect them.**
 (a) 1, 2 and 3 are true
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
15. **What is "Taxol"?.**
 (a) Plant alkaloid
 (b) An extinct mammal
 (c) An Insect
 (d) An Algae
16. **"Skava Commerce" has been launched by**
 (a) WIPRO
 (b) TCS
 (c) Infosys
 (d) ITC
17. **The RBI has introduced a new method-Marginal Cost of Funds Based Lending Rate (MCLR) which is going to replace the present Base Rate System.**
**1. This is a set which aims at lowering the borrowing costs.
 2. It mandates the bank to calculate the lending rate taking into account the marginal cost of Funds.**
- 3. It is mandatory for banks to consider the repo rate while calculating their MCLR.**
 (a) 1 and 2
 (b) 1 only
 (c) 1, 2 and 3
 (d) 1 and 3
18. **Which one of the following statements is/are true about "Demchok mission"?**
 (a) It aims at laying an irrigation pipeline.
 (b) It was built under the Mahatma Gandhi National Rural Employment Guarantee Scheme.
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
19. **The Human Development Index is a composite statistic of life expectancy, education and income per capita indicators, which are used to rank countries in four-tiers of human development. Consider the following about HDI:**
**1. It was prepared by UNDP since 1990.
 2. It is based on formula provided by economist Amartya Sen and Mahbub-ul-Haq.**
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
20. **A tool named IEES 2047 was recently launched by India for**
 (a) Indian Ecological Footprint
 (b) Energy Security
 (c) Radio Collaring
 (d) Aadhaar atomization
21. **1. While Censure motion can be moved against a minister, No-confidence motion can be moved only against entire Council of Ministers
 2. The entire Council of Ministers needs to resign if any of these is passed in Lok Sabha. Which among the above statements is / are correct?.**
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2

22. **2 + 2 dialogue is between India &**
 (a) Pakistan
 (b) Russia
 (c) China
 (d) Japan
23. **Consider the following statements regarding India – Russia MBIR project.**
1. It is based on open fuel cycle.
2. It is a fusion reactor.
Which of the above statements is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
24. **Which of the following is/are correct statement (s)?**
 (a) Potassium bromated is an oxidiser used to strengthen dough and enhance its elasticity.
 (b) Codex Alimentarius is an international food safety reference agency run by the WTO and FAO.
 (c) Both (a) & (b) are correct.
 (d) **Neither (a) nor (b) is correct**
25. **1. It is a Global Partnership of Conservation Organization.**
2. Bombay Natural History Society is the partner of BirdLife International in India.
Which of the statements given above is/are correct with reference to "Birdlife International"?
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
26. **'100 Million for 100 Million' Campaign is**
 (a) women rights campaign
 (b) child rights campaign
 (c) tribal rights campaign
 (d) gay rights campaign
27. **Which of the following is/are true about Egrets?.**
1. It can be used as bio-control agent in solid-waste dumping sites.
2. It is a tree found in Western Ghats.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
28. **India (RBI) has been caught in the 'impossible trinity' trilemma. This is a news headline. Which of the following is/are the part of 'Impossible Trinity'?**
1. Stable exchange rate
2. Free Capital Flows
3. Independent monetary policy
4. Fiscal Stimulus
 (a) 1, 2 and 3
 (b) 1, 2 and 4
 (c) 1, 2 and 3
 (d) 2, 3 and 4
29. **Vehicular Emission Norms under the Bharat Stage emission standards cover which of the following pollutants?**
(1) Carbon Monoxide (CO)
(2) Mono-Nitrogen Oxides (NOx)
(3) Particulate Matter (PM)
(4) Sulphur Oxide (Sox)
(5) Hydro Carbon (HC)
(6) Lead
 (a) 1, 2, 3 and 5
 (b) 1, 3, 4 and 6
 (c) 2, 3, 4 and 6
 (d) 2, 4, 5 and 6
30. **Eilat virus infects**
1. Insects
2. Human beings
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
31. **Inclusive Growth and Development Report is by**
 (a) United Nations Agency
 (b) WEF
 (c) WB
 (d) IFC

32. 1. Ascorbic acid
2. Glucose oxidase
3. Ammonium Persulphate
Alternatives to Potassium Bromate in Bread is/are
(a) 1, 2, 3
(b) 2
(c) 2 & 3
(d) 1 & 2
33. 1. Right to Choose is a fundamental right.
2. Imposing a ban on liquor is a violation of Fundamental Right.
(a) Only 1 is true
(b) Only 2 is true
(c) 1 & 2 are true
(d) Neither 1 nor 2 is true
34. Consider the following statements.
1. The original jurisdiction of SC is confined to federal dispute cases.
2. Appellate jurisdiction of SC includes only civil and constitutional matters.
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) None
35. What is meant by Global 200?
(a) It is the list of heritage-sites identified by UNESCO, for conservation.
(b) It is the list of eco-regions identified by WWF, the global conservation organization, as priorities for conservation.
(c) It is the list of regions identified by UNICEF, for child Development.
(d) None of these.
36. Which of these is/are true?
1. A colour blind boy can't receive a colour blind 'gene' from his father.
2. Red/Green colour blindness is far more common in men than women.
(a) Only 1
(b) Only 2
(c) 1 & 2
(d) Neither 1 nor 2
37. Consider the following statements :
(1) The Cartagena Protocol on Biosafety regulates trans-boundary movement of the Living Modified Organisms (LMOs).
(2) This protocol has provisions on advanced prior information and liability, and enables a comprehensive approach on biosafety of LMOs.
(3) In India, the only approved Genetically Modified (GM) crop that is cultivated commercially, is Bt cotton.
Which of the statements given above is/are correct?
(a) Only 1
(b) 2 and 3
(c) 1 and 3
(d) 1, 2, and 3
38. 1. Smog consists of VOCs.
2. Smog is formed by reaction of sulphur oxides with nitrogen oxides in the presence of sunlight.
3. Heavy smog results in decrease in natural vitamin D production leading to rise in cases of Rickets.
Which of the statements given above is/are correct?
(a) 2 only
(b) 2 and 3 only
(c) 1 and 3 only
(d) 1, 2 and 3
39. "Pratihar-I" is the first-ever joint military exercise between
(a) China - Pakistan
(b) China - Nepal
(c) China - Russia
(d) China - Srilanka
40. 1. 'Free radicals' are capable of attacking the healthy cells of the body.
2. Selenium is a good anti-oxidant.
3. 'Free radicals' are formed by the effect of the sun's UV rays.
(a) 1, 2 and 3 are true
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct

41. Which is/are the constitutionally mandated bodies under the 74th Constitutional Amendment Act, 1992?
 1. State Finance Commission
 2. State Election Commission
 3. District Planning Committee
 4. District Rural Development Agency
 (a) 1, 2 and 3 only
 (b) 1 and 2 only
 (c) 1, 3 and 4 only
 (d) 1, 2 and 4 only
42. Consider the following statements:—
 (1) The Cauvery Wildlife Sanctuary is in Tamil Nadu.
 (2) It has dry deciduous forests, as well as, some patches of scrub forests.
 (3) Malabar giant squirrels are found in this sanctuary.
 Which of the statements are correct?
 (a) 1 and 2
 (b) 2 and 3
 (c) 1 and 3
 (d) 1, 2 and 3
43. LCDC campaign is related to
 (a) Child labour
 (b) Health
 (c) Women Empowerment
 (d) Disabled people
44. “The Untold Vajpayee: Politician and Paradox” was authored by
 (a) Ullekh N P
 (b) L.K.Advani
 (c) Narendra Modi
 (d) Amit Shah
45. The ICT Development Index (IDI) is an index published by
 (a) United Nations Agency
 (b) WEF
 (c) WB
 (d) IFC
46. Diamantina Trench, which is a rift valley is in
 (a) Indian Ocean
 (b) Arctic Ocean
 (c) Pacific Ocean
 (d) Atlantic Ocean
47. Biotech-KISAN a Farmer centric scheme has been launched by
 (a) Ministry of Agriculture
 (b) Ministry of Environment and Forests
 (c) Department of Science & Technology
 (d) Ministry of Panchayati Raj
48. ‘IMPRINT’ initiative aims at
 (a) Ensuring higher funding support for research in areas of immediate relevance to Indian society
 (b) Providing financial and technical assistance to young start-up entrepreneurs
 (c) Promoting the handicrafts industry in rural areas
 (d) Promoting cost effective printing technology among Government departments
49. Which of the statements given above is/are correct w.r.t. Concentrating Solar Power technology?
 1. It does not use photovoltaic cells to generate power.
 2. In this heat energy is converted to electricity.
 3. It produces electricity in the form of alternating current.
 (a) 1 and 2 only
 (b) 1, 2 and 3
 (c) 2 and 3 only
 (d) 1 and 3 only
50. Which of the following is/are true?
 (1) LEDs have no gases, filaments or any moving parts to fatigue.
 (2) The proportion of lumens that falls in an area from an LED light source is greater than that of a conventional light source.
 (a) Only (1)
 (b) Only (2)
 (c) Both (1) & (2)
 (d) Neither (1) Nor (2)
51. (1) The Kolleru Lake is formed by many distributaries of the Krishna and the Kaveri rivers that drain into a depression.

(2) Kolleru is home to spot-billed or grey pelican population, which the International Union for Conservation of Nature has categorized as near threatened.

(3) The lake comes under the Convention on Wetlands of International Importance, 1971, or the Ramsar Convention.

Which of the statements given above is/are correct?.

- (a) 1 only
- (b) 1 and 2
- (c) 2 and 3
- (d) 1, 2 and 3

52. With reference to the Collegium system, consider the following statements:

(1) The Collegium system is one where the Chief Justice of India and forum of four senior-most Judges of the Supreme Court and the High Court recommend appointments and transfers of Judges.

(2) There is no mention of the collegium either in the original Constitution of India or in successive amendments.

Which of the above statement(s) is/are correct?.

- (a) 1 & 2
- (b) Only 2
- (c) Only 1
- (d) Neither 1 nor 2

53. In the international banking landscape, what does the term 'SWIFT' – sometimes seen in the news – mean?

(a) A Bank for International Settlements (BIS) programme to help member country-banks improve the quality and speed of Credit Appraisal Procedures.

(b) A messaging network that financial institutions use to securely transmit information and instructions.

(c) A model policy of the International Monetary Fund which provides guidelines on processes for loan recovery.

(d) None of the above

54. Which of the following is the use of "ROHYTAM"?

- (a) Capping and decapping bottles
- (b) Handling of nuclear power plant emergencies
- (c) Mobile Scanner
- (d) Irradiation in FBTR

55. Consider the following statements regarding Terahertz radiation.

1. It is a part of Electromagnetic radiation.
2. It can read a book without opening it.

Which of the above statements is/are true?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

56. What is/are true?

1. HFC doesn't harm ozone.
2. The biggest emitters of HFCs are mobile air conditioning (MAC) systems in cars.

- (a) Only 1 is true.
- (b) Only 2 is true.
- (c) 1 & 2 are true
- (d) Neither 1 nor 2 is true

57. Mawlynnong – Asia's Cleanest village is in

- (a) India
- (b) China
- (c) Srilanka
- (d) Afghanistan

58. Which of the following vaccines is/are assigned under India's Universal Immunization Program (UIP)?.

- (1) Inactivated Polio Vaccine
- (2) Measles, Rubella vaccine
- (3) Adult Japanese Encephalitis vaccine
- (4) Rotovac

- (a) 1 only
- (b) 2 and 3
- (c) 1, 2 and 3
- (d) 1, 2, 3 and 4

59. Which of the following is/are true?.

- (a) Compared to blue light, violet light is most easily scattered by atmospheric particles.
- (b) Compared to violet light, blue light is most easily scattered by atmospheric particles.

- (c) Both violet light & blue light are scattered at the same level of ease by atmospheric particles.
 (d) None of these
60. Which among the following elements form the sedimentary biogeochemical cycles?
 1. Carbon
 2. Sulfur
 3. Calcium
 4. Nitrogen
 (a) 1 and 4 only
 (b) 2 and 3 only
 (c) 1, 3 and 4 only
 (d) 1, 2, 3 and 4
61. Transformative Carbon Asset Facility is launched by
 (a) World Bank
 (b) UNEP
 (c) WEF
 (d) WTO
62. Bharat Stage prescribes emission norms for which of the following vehicular exhausts in India?
 1. Lead 2. CO₂ 3. NO_x 4. Ozone
 (a) 2 and 3 only
 (b) 1 and 2 only
 (c) 1, 2 and 3 only
 (d) 1, 3 and 4 only
63. Which of the following is/are true?
 (a) SLNP scheme is related to Child Development.
 (b) It comes under Ministry of Social Justice.
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
64. The Parliament can make any law for the whole or any part of India to implement international treaties
 (a) with the consent of all the states.
 (b) with the consent of the majority of states.
 (c) with the consent of the state concerned.
 (d) without the consent of the states.
65. National Mission on Bio-economy is under the Ministry of
 (a) Trade & Commerce
 (b) Science and Technology
 (c) Earth Sciences
 (d) Agriculture
66. The bimetallic strip in a thermostat consists of brass and iron. When the strip is heated, it bends into an arc with brass on the convex side and iron on the concave side of the arc. This happens because
 (a) Brass has a higher specific heat capacity than iron
 (b) The density of brass is more than that of iron
 (c) It is easier to bend a brass strip than an iron strip of the same size
 (d) brass has a higher coefficient of linear expansion than iron
67. (1) A proclamation imposing the President's Rule must be approved by both the Houses of the Parliament, within two months from the date of its issue.
 (2) The 44th Amendment Act of 1978 introduced a new provision to put restraint on the power of the Parliament to extend a proclamation of the President's Rule beyond one year.
 (3) The President's Rule can be extended for a maximum period of two years, with the approval of the Parliament, every six months.
 Which of the statements given above is/are correct?
 (a) Only 1
 (b) 1 and 3
 (c) 1 and 2
 (d) 1, 2 and 3
68. The Government has proposed to set up 5 new Ultra Mega Power Projects (UMPPs), each of 4000 mw capacity in the 'plug-and-play mode'. What is meant by 'plug-and-play mode' in this context?
 (a) The UMPPs will be a high end technology venture supported by the government from the very initial phases.
 (b) All clearances and linkages will be in place before the project is awarded by the Government.
 (c) The basic infrastructure of the UMPPs will be setup by the government, and then ownership will

- be transferred to the private sector for further up gradation.
 (d) None of the above
69. **Who authored 'the philosophy of the bomb' published in January 1930?**
 (a) Bhagat Singh
 (b) Bhagwati Charan Vohra
 (c) Surya Sen
 (d) None of these
70. **Consider the following statements regarding Protected Area Network(PAN) in India:**
 1. Protected areas are constituted and governed by the Environment (Protection) Act 1986.
 2. There are 4 categories of the Protected Areas viz, National Parks, Sanctuaries, Conservation Reserves and Community Reserves.
 3. The Eco-Sensitive zones around National Parks and Sanctuaries is a type of PAN under Community Reserves.
Which of the statement(s) given above is/are correct?.
 (a) 1 and 2 only
 (b) 2 and 3 only
 (c) 2 only
 (d) 1 and 3 only
71. **Consider the following statements regarding FAME India scheme.**
 1. It intends to promote Indian Tourism.
 2. It is implemented by Ministry of External Affairs.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) Both 1 and 2 are true
 (d) Neither 1 nor 2
72. **'White Helmets' frequently seen in the news is**
 (a) an international movement which campaigns for ensuring road safety
 (b) the medical wing of World Health Organization (WHO) working in Syria
 (c) an international humanitarian movement sponsored by the United Nations
 (d) a volunteer corps of Syrians who act as first responders in the Syrian civil war
73. **The South Asian Free Trade Agreement (SAFTA) has not been a success because of:**
 1. Narrow export base of countries.
 2. Lack of bilateral free trade agreements.
 3. Political hurdles.
 (a) 1 and 2 only
 (b) 1 and 3 only
 (c) 2 and 3 only
 (d) 1, 2 and 3
74. **Which of the following are the members of the committees which recommends the name of Chief Information Commissioner.**
 1. Prime Minister
 2. Speaker
 3. Leader of Opposition in Lok Sabha.
 4. Union Home Minister
 (a) Only 1 and 3
 (b) Only 1, 3 and 4
 (c) Only 1, 2 and 3
 (d) 1, 2, 3 and 4
75. **Which of the following is/are true about Biennial Update Report?.**
 1. As per the UNFCCC rules, BURs are subjected to an international process known as International Consultation and Analysis (ICA), a process that includes international scrutiny of BUR in a manner that is "non-intrusive, non-punitive and respectful of national sovereignty".
 2. Waste sectors contributed minimal to the GHG Inventory as per BURs.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
76. **Financial Data Management Centre has been mooted by**
 (a) Deepak Shah committee
 (b) Ratan Wala committee
 (c) Ajay Tyagi committee
 (d) Raghuram Rajan committee
77. **Which of the following about biodigester toilets is correct?.**
 1. they use methanogenic bacteria
 2. they require no or very low maintenance

3. the use less water
 (a) 1 and 2 only
 (b) 1 and 3 only
 (c) 2 and 3 only
 (d) 1, 2 and 3
78. Under the Indus Water Treaty (IWT), India has been given the exclusive right over the rivers of:
 1. Chenab 2. Ravi 3. Beas
 4. Indus 5. Satluj 6. Jhelum
 (a) 1, 2 and 3 only
 (b) 1, 3 and 4 only
 (c) 2, 3 and 5 only
 (d) 1, 2 and 6 only
79. Which of the following phenomena is supposedly associated with global warming?
 (a) Southern Oscillation
 (b) El Nino
 (c) El Nino Modoki
 (d) All the above
80. 1. FDCs are considered to be effective for elderly patients or patients suffering from multiple disorders.
 2. FDCs are less economic than single ingredient drugs.
 3. Its therapeutic efficacy has not been proved scientifically.
 Which of the statements given above is/are correct with reference to Fixed dose drug combinations (FDCs)?
 (a) 2 only
 (b) 2 and 3 only
 (c) 1 and 3 only
 (d) 1, 2 and 3
81. 1. The office of Solicitor General is a constitutional one.
 2. The Attorney General of India is a member of central cabinet.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
82. Which of the following adds/add carbon dioxide to the carbon cycle on the planet Earth? 1. Volcanic action 2. Respiration 3. Photosynthesis 4. Decay of organic matter
 (a) 1 and 3 only
 (b) 2 only
 (c) 1, 2 and 4 only
 (d) 1, 2, 3 and 4
83. 1) It comes under the Ministry of Chemicals and Fertilisers.
 2) Its headquarters is situated in Kolkata
 Which of the statements given above is/are correct regarding the Petroleum and Explosives Safety Organization (PESO)?
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
84. Which of the following distinguishes a Parliamentary Democracy from a Presidential Democracy?
 1. Separation of Powers.
 2. Checks and Balances.
 3. Distribution of Powers.
 4. Fusion of Powers.
 (a) Only 1 and 2
 (b) Only 4
 (c) Only 2 and 4
 (d) 1, 2, 3 and 4
85. 1. UV forms only 6% of insolation.
 2. IR forms 43% of insolation and is largely absorbed by water vapour that is concentrated in the lower atmosphere.
 3. Insolation is greatest at the equator.
 Which of these is / are true?
 (a) Only 1 & 2
 (b) Only 2 & 3
 (c) Only 3
 (d) All are true
86. Midori Prize is given for
 (a) Mathematics
 (b) Literature
 (c) Biodiversity
 (d) Human Rights

87. **Himalayan Griffon is a / an**
 (a) bird
 (b) mammal
 (c) amphibian
 (d) tree
88. **BlISS is a scheme to encourage students to consider careers in**
 (a) Biotechnology
 (b) ISRO
 (c) NGOs
 (d) ICT
89. **Tiger census is carried out by**
 (a) National Board for Wildlife.
 (b) National Bio Diversity Authority
 (c) National Tiger Conservation Authority
 (d) Jointly by (a) & (c)
90. **Central Statistical Office compiles**
 1. National Accounts
 2. Index of Industrial Production (IIP)
 3. Consumer Price Indices
 4. Annual Survey of Industries
 (a) 1 and 3 only
 (b) 1 and 2 only
 (c) 1, 3 and 4 only
 (d) 1, 2, 3 & 4
91. **Which of the following crops is/are a source of bioethanol?.**
 (1) Sugarcane (2) Jatropha
 (3) Wheat (4) Sorghum
 (a) 2 only
 (b) 2 and 4
 (c) 1, 3 and 4
 (d) 1, 2, 3 and 4
92. **Consider the following statements :**
 (1) **Brundtland Commission's definition of sustainable development was focused on development, need and future generation.**
 (2) **Tragedy of the Commons refers to the loss of land by small island countries as a result of climate change.**
 (3) **Deep Ecology refers to inclusion of underwater species in developmental agenda.**
 Which of the statements given above is/are correct?.
93. **Laser Interferometer Gravitational-wave Observatory- India will come up in**
 (a) Madhya Pradesh
 (b) Teleangana
 (c) Andhra Pradesh
 (d) Maharashtra
94. **The 'ebird' platform has been designed for**
 (a) Documentation of the presence or absence of bird species, as well as their abundance
 (b) Cashless Economy among Rural Artisans
 (c) Creating awareness among netizens on biodiversity conservation
 (d) Sharing information on the discovery of new and endemic bird species.
95. **Which of the following is/are true regarding PESA, 1996?.**
 (a) Gram Sabha has the right to exercise control over money lending to STs
 (b) PESA has been enacted for 5th Schedule areas.
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
96. **Mohan Singh Josan who died recently had taken part in**
 (a) Swadeshi Movement
 (b) Civil Disobedience Movement
 (c) Quit India movement
 (d) All the above
97. **The lady representative of India at the Second Round Table Conference**
 (a) Vijayalakshmi Pandit
 (b) Sarojini Naidu
 (c) Aruna Asaf Ali
 (d) Sucheta Hriplani
98. **First zinc biofortified rice variety in India, was launched in**
 (a) Chhattisgarh
 (b) Thiruvananthapuram

- (c) Pune
- (d) Lucknow

99. **'Progress Panchayats'** is for

- (a) Women
- (b) Tribes
- (c) Minorities
- (d) Agro based industry

100. **Smog containing high levels of sulphur dioxide is called**

- (a) Photochemical smog
- (b) Reducing smog
- (c) Oxidizing smog
- (d) Acidic smog



SINGLE DIGIT RANK

IAS MAINS 2017

Don't Just Study.

Join Our

**GS & ESSAY - WRITING
SKILLS PROGRAMME**

CrackingIAS.com

@ CHENNAI

Raja Sir's

 **CRACKING**
IAS ACADEMY

Since 2005 — Feel the Pulse of UPSC...

9884554654

1. **World Risk Report is released by**
 (a) UNDP
 (b) WEF
 (c) UNU-EHS
 (d) WB
2. **Which of the following can be used to control the crop-raiding animals?.**
1) Engine oil
2) Chilli Powder
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
3. **'Maharaja' bond, a rupee-denominated onshore debt instrument issued by**
 (a) SBI
 (b) ICICI
 (c) IBRD
 (d) International Finance Corporation
4. **What is the objective of Euclid mission?.**
 (a) To study Black Hole
 (b) To study Asteroids
 (c) To study dark matter
 (d) To study extra terrestrial life
5. **Swayam Shikshan Prayog, recently seen in news is**
 (a) an NGO that empowers grassroots women to enable sustainable progress in underserved communities in India
 (b) an NGO working for free distribution of Napkins to adolescent girls in India
 (c) a Self-Help Group which won the President's award for the best SHG in the country
 (d) a society registered under Societies Registration Act 1860 & managed by Ministry of Women & Child Development.
6. **What is/are true about "F-gases" that are frequently in news?.**
 (a) They are powerful greenhouse gases.
 (b) They are not included in the basket of gases controlled by the Kyoto Protocol, as they occur naturally in the atmosphere.
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
7. **A graded response action plan has been notified by the union environment ministry to deal with**
 (a) Tiger Conservation
 (b) Noise Pollution
 (c) Air Pollution
 (d) Mangroves Protection
8. **1. Laggar Falcons are an indigenous raptor species with white and grey plumage, which can hunt and fly at speeds of up to 180 kmph.**
2. The species nest only on rock cliffs unreachable to humans.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) 1 & 2 are true
 (d) Neither 1 nor 2 is true
9. **"World's highest and longest" glass-bottom bridge is in**
 (a) Australia
 (b) India
 (c) China
 (d) Norway
10. **Mount Halti is between**
 (a) Norway and Finland
 (b) Norway and Sweden
 (c) Finland and Sweden
 (d) Finland and Russia
11. **Consider the following statements:**
(1) Jarvis is a home AI system built by Mark Zuckerberg.
(2) Jarvis can be controlled via an app, Messenger bot, and voice.
Which of the above statements is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2

12. **The Large Hadron Collider is concerned with**
 (a) Proton - Neutron Collision
 (b) Proton - Electron Collision
 (c) Proton - Proton Collision
 (d) Neutron - Neutron Collision
13. **ISRO's AVATAR is a**
 (a) unmanned mission to study Sun
 (b) manned single-stage reusable space-plane
 (c) unmanned single-stage reusable space-plane
 (d) one-manned mission to study Sun
14. **Which of the following is/are true about "Internet of Things"?.**
 1. IoT has evolved from the convergence of wireless technologies, micro-electromechanical systems, microservices and the internet.
 2. A connected car is an IoT.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
15. **Modified Special Incentive Package Scheme(M-SIPS) aims at**
 (a) Promoting electronics manufacturing.
 (b) Promoting MSME.
 (c) Promoting the handicrafts industry.
 (d) Promoting SHGs.
16. **The BRICS Contingent Reserve Arrangement is related to**
 (a) Banking
 (b) Counter Terrorism
 (c) Cultural Co-operation
 (d) None of these
17. **Energy Efficiency Services Limited (EESL) is a joint venture of**
 1. NTPC Limited
 2. Power Finance Corporation
 3. Rural Electrification Corporation
 4. POWERGRID
 (a) 2 and 3 only
 (b) 1, 3 and 4 only
 (c) 3 and 4 only
 (d) 1, 2, 3 and 4
18. **The third stage of the Indian Nuclear Power Programme is based on the**
 (a) Plutonium -Uranium- 238 cycle
 (b) Thorium-Uranium- 233 cycle.
 (c) Thorium-Uranium- 235 cycle.
 (d) Plutonium -Uranium- 233 cycle.
19. **Which of the following statements is/are correct with reference to Agni-V Missile?.**
 1. It is India's first intercontinental ballistic missile.
 2. It is a surface to surface, nuclear capable ballistic missile.
 3. It can carry a nuclear warhead weighing 1.5 tonnes over a distance of more than 5,000 km.
 (a) 1 only
 (b) 2 and 3 only
 (c) 1 and 2 only
 (d) 1, 2 and 3
20. **1. Clouded leopard
 2. Cheetah
 3. Black-necked crane
 4. Pangolin**
Which of the above is/are not naturally found in India?.
 (a) 1, 2 and 3 only
 (b) 1, 3 and 4 only
 (c) 2 only
 (d) 1, 2, 3 and 4
21. **1. Scramjet is sub-sonic.
 2. Scramjets use ambient air to burn fuel.**
Which of the above is/are true?.
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
22. **Biotech-KISAN has been launched by the Ministry of**
 (a) Agriculture
 (b) Earth Sciences

- (c) Chemicals & Fertilizers
(d) Science & Technology
23. Fly-Ash used to fill mines is being criticized because
 1) No support for tree species in such places
 2) Contamination of ground water
 3) Toxic fumes cause respiratory diseases
 (a) 1 and 3 only
 (b) 1 and 2 only
 (c) 1, 2 and 3
 (d) 2 and 3 only
24. The Financial Stability Board (FSB) includes all
 (a) G-20 major economies
 (b) G-20 major economies and the European Commission
 (c) G-20 major economies, G7 countries, and the European Commission.
 (d) G-20 major economies and the G7 countries.
25. Project "CAIPEEX" is for
 (a) Rehabilitation of orphaned street children
 (b) Conservation of Wetlands
 (c) Rain Enhancement Technique
 (d) None of these.
26. Forest Survey of India (FSI) assesses forest cover of the country by interpretation of remote sensing satellite data and publishes the results in a report called 'State of Forest Report (SFR)'. This report is
 (a) Annual
 (b) Biennial
 (c) Triennial
 (d) Quadrennial
27. Global Innovation Index is compiled by INSEAD and World Intellectual Property Organization. INSEAD is
 (a) France based international business school
 (b) Germany based international business school
 (c) Australia based international business school
 (d) Sweden based international business school
28. The Almatti dam, chosen for the World Bank's Award of Excellence for best utilisation of funds for renovation to enhance the strength of the dam is built on the river
 (a) Krishna
 (b) Tungabhadra
 (c) Narmada
 (d) Godavari
29. Kangra school of painting is associated with
 1. Miniature paintings inspired from Vaishnavite traditions.
 2. Migration of Mughal artists to the hills from the plains following Nadir Shah's invasion.
 Which of the above is/are incorrect?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
30. Which of the following statements is/are false about the forest fires in India with respect to the Parliamentary Standing Committee Report on Forest Fire?
 1. Uttarakhand has the highest percentage of its geographical area under fire affected areas.
 2. Madhya Pradesh has seen a nearly tenfold increase in incidences of forest fire.
 3. The three central States of Odisha, Chhattisgarh, and Madhya Pradesh contribute a third of the forest fires in India.
 (a) Only 1
 (b) 1, 2 and 3
 (c) Only 3
 (d) None of these
31. Consider the following statements.
 1. Under this scheme, Centre has transferred 75% debt of all State Power Distribution Companies into the respective State's account.
 2. This scheme envisages financial turnaround and revival of State electricity distribution utilities.

- (a) Only 1 is true
 (b) Only 2 is true
 (c) 1 & 2 are true
 (d) Neither 1 nor 2 is true
32. **'Bharat Mala' project is related to**
 (a) Inland waterways
 (b) construction of roads
 (c) airways
 (d) Railways
33. **The task of Tarun Ramadorai Committee is**
 (a) to look at various issues of Women Empowerment in India
 (b) to look at various issues of Child labour in India
 (c) to look at various facets of household finance in India
 (d) to look at various issues of Demonetisation in India
34. **National Committee on Trade Facilitation is chaired by**
 (a) Governor, RBI
 (b) Cabinet Secretary
 (c) Finance Minister
 (d) Prime Minister
35. **The World famous 11-day gala festival Bargarh Dhanua Jatra happened in**
 (a) Nagaland
 (b) Bihar
 (c) Odisha
 (d) Assam
36. **Minimum Import Price that was frequently in news is w.r.t.**
 (a) Crackers
 (b) Generic Drugs
 (c) Palmolein
 (d) Steel
37. **The first International Arbitration Centre of India was inaugurated in**
 (a) Delhi
 (b) Chennai
 (c) Mumbai
 (d) Lucknow
38. **Which of the following is/are true about Kala Azar?.**
 1. There is only one sandfly vector of Kala-azar in India *Phlebotomus argentipes*.
 2. It is endemic in eastern States of India namely Bihar, Jharkhand, Uttar Pradesh and West Bengal.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
39. **Which of the following brings out an annual publication "Energy Statistics" incorporating data on reserves, installed capacity, potential for generation, production, consumption, import, export and wholesale price of different energy commodities?.**
 (a) Ministry of Energy and Power Resources
 (b) Central Statistics Office
 (c) National Sample Survey Organization
 (d) Ministry of Petroleum and Coal
40. **Which of the statements given above is/are correct?.**
 1. The Eighth Schedule had originally 14 languages only but subsequently through amendments 8 new languages were added.
 2. A candidate appearing in an examination conducted for public service is entitled to use any of these languages as the medium in which he or she answers the paper.
 3. No parameters had been laid down for inclusion of more languages in Indian Constitution.
 (a) 1 and 2 only
 (b) 1, 2 and 3
 (c) 2 and 3 only
 (d) 1 and 3 only
41. **Consider the following about the "Annual Public Forum", WTO's flagship event.**
 1. WTO released its trade statistics and outlook.

2. It provides a common platform for heads of state as well as NGOs to discuss major trade and developmental issues. Which of the above is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
42. "Dragon Hole" is in
 (a) Dead Sea
 (b) Red Sea
 (c) Bermuda Triangle
 (d) South China Sea
43. 1. The Maldives pulled out of the Commonwealth.
 2. The reason cited was Maldives Lower Social Development Index and Financial crisis.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
44. 1. Forest owlet is a Critically endangered species.
 2. Forest owlet is endemic to the forests of central India.
 Which of the above is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
45. Leigh syndrome is caused by
 (a) Mutation in Mitochondria
 (b) Alteration in 21st Chromosome
 (c) Tannery effluent contaminated water
 (d) Asbestos pollution
46. Which is/are true?
 (a) The origin of Mallakhamb can be traced to the 12th century, where it is mentioned in Manas-Olhas - a classic by Chalukya.
 (b) Mallakhamb involves gymnastic performances.
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
47. Which of the following is true about "SAFAR"?
 (a) It is a scheme launched by SAARC Nations to control air pollution in SAARC Nations.
 (b) It is an app to check air quality in real time.
 (c) It is air pollution watch Satellite by ISRO.
 (d) It is a scheme launched in Budget 2016-17 to control air pollution in Delhi.
48. 'World Power Language Index' is published by
 (a) WEF
 (b) WB
 (c) IMF
 (d) UN
49. Udaipur Declaration of BRICS nations is related to
 (a) Disaster Management.
 (b) Social Development
 (c) Child Labour
 (d) New International Economic Order
50. Consider the following statements.
 1. Vitamin B12 deficiency is more likely in those following a vegan diet.
 2. Leptin is produced by our body's fat cells and its levels rise in response to eating food.
 Which of the above statements is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
51. Consider the following statements.
 1. Prostitution is a demerit good.
 2. Sin tax is imposed on demerit goods.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) 1 & 2 are true
 (d) Neither 1 nor 2 is true
52. What is Global Apollo Programme?
 (a) An ambitious space programme of ISRO.

- (b) Joint programme of NASA and ESA to combat global warming.
 (c) A programme to decrease the cost of clean electricity.
 (d) None of the above
53. Consider the following about the "Electropreneur Park".
 1. Software Technology Parks Of India has partnered WEF to set up an 'Electropreneur Park'.
 2. The initiative will focus on IP creation and product development to increase value addition to domestic manufacturing of electronic items like smart-phones, smart meters, micro ATMs and set top boxes. Which of the above is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
54. 'Currency Chest' seeks to
 (a) mint the coins for solving tender exchange issues
 (b) act as a store house of the coins and rupee notes
 (c) printing of new currencies
 (d) a foreign exchange market based instrument
55. Which is/are true?
 (a) The Antarctic Circumnavigation Expedition (ACE) is launched by the Swiss Polar Institute.
 (b) It studies ozone depletion.
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
56. What is/are true about five-hundred-meter Aperture Spherical Radio Telescope?
 1. It is a Japanese mega-science project aiming to build the largest single dish radio telescope in the world.
 2. The goal of FAST is to discover the laws of the development of the universe.
 (a) Only 1 is true.
 (b) Only 2 is true.
 (c) 1 & 2 are true
 (d) Neither 1 nor 2 is true
57. Pro-bond market is
 (a) USA based
 (b) Japanese based
 (c) Singapore based
 (d) Sweden based
58. "24x7 PFA" is related to
 (a) PIB News Channel
 (b) PTI News Channel
 (c) NAM News Channel
 (d) None of these
59. Which of the following are benefits of District Reserve Force (DRG)?
 1) Many recruits in DRG are surrendered Naxals
 2) Well conversant with the inhospitable terrain
 3) Good local information network
 (a) 1 and 3 only
 (b) 1 and 2 only
 (c) 1, 2 and 3
 (d) 2 and 3 only
60. 1. Hydroxyl radical
 2. Nitric oxide radical
 3. Chlorine ion
 4. Bromide ion
 Which of the given above are able to destroy the ozone layer?
 (a) 2 and 3 only
 (b) 1, 3 and 4 only
 (c) 3 and 4 only
 (d) 1, 2, 3 and 4
61. October heat is best described by
 1. clear skies
 2. rise in temperature
 3. cooler nights
 (a) 1, 2 and 3 are true
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct

62. **RapidHIT DNA System the first-of-its-kind initiative allows generation of DNA profiles from live samples like saliva and blood stains within 90 to 120 minutes. This system uses the latest DNA technology tool developed by IntegenX, Inc., USA. It has been launched in**
- Andhra Pradesh
 - Madhya Pradesh
 - Kerala
 - Karnataka
63. **Which one of the following statements is/are true?.**
- 'Haflong Thrust' runs through the Borail and North Cachar Hills.
 - 'Haflong Thrust' is Seismic Belt.
 - Both (a) & (b)
 - Neither (a) nor (b)
64. **Which of the following statements is/are correct?.**
1. **Helicobacter Pullorum will be the source of transmission of the multiple drug resistant pathogens to humans.**
 2. **It is commonly found in the liver and gut of poultry birds.**
 3. **Recently researchers in Hyderabad isolated the Helicobacter Pullorum in chicken.**
- 1 only
 - 2 and 3 only
 - 1 and 2 only
 - 1, 2 and 3
65. **"Department of External Investments and Operations" falls within the ambit of which of the following?**
- Reserve Bank of India
 - Ministry of External Affairs
 - Ministry of Commerce & Industry
 - Ministry of Finance
66. **Which of the following is/are true about "Army Design Bureau"?**
1. **Army Design Bureau is a part of 'Make in India' programme.**
 2. **It will replace DRDO after 10 years.**
- 1 and 2 are correct
 - Only 1 is correct
 - Only 2 is correct
 - None is correct
67. **With which of the following India signed a \$5.19 million grant agreement for financing energy efficiency at micro, small and medium enterprises (MSMEs) project?.**
- WEF
 - International Bank for Reconstruction and Development
 - Asian Development Bank
 - BRICS Bank
68. **The 'Aral sea' is located between**
- Kyrgyzstan and Kazakhstan
 - Tajikistan and Uzbekistan
 - Kyrgyzstan and Tajikistan
 - Kazakhstan and Uzbekistan
69. **Which of the following is/are correct statement (s) w.r.t. "Insolvency and Bankruptcy Board of India"?**
- It will have 10 members, including representatives from the Ministries of Finance and Law, and the Reserve Bank of India.
 - It covers Individuals, Companies, Limited Liability Partnerships and Partnership firms.
 - Both (a) & (b) are correct.
 - Neither (a) nor (b) is correct
70. **World's first Google Station Wi-Fi hotspot would be set up in**
- Pune
 - Chennai
 - Sydney
 - Madrid
71. **With reference to the helmeted hornbill which was in news recently, which of the below statements given is/are correct?.**
1. **The demand for hornbill ivory has pushed this avian species to the brink.**
 2. **The species is listed as a critically endangered animal by the International**

- Union for Conservation of Nature's (IUCN) red list.**
3. It is hunted by the poachers mostly for its brilliant plumage or large bills.
 (a) 1 and 2 only
 (b) 2 and 3 only
 (c) 1 only
 (d) 1, 2 and 3
72. **Which is/are true about Saraighat Bridge?.**
 (a) It is built across Brahmaputra River.
 (b) It is a rail-cum-road bridge.
 (c) It is built by China.
 (d) Both (b) & (c)
73. **Indian Seasonal Energy Efficiency Ratio**
1. developed by BIS.
2. applicable only to air conditioners.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
74. **1. Spectrum harmonization refers to the uniform allocation of radio frequency bands across an entire region.**
2. It is based on a country's topography.
 (a) Only 1 is true
 (b) Only 2 is true
 (c) 1 & 2 are true
 (d) Neither 1 nor 2 is true
75. **What is the major reason for the Government of India's proposal to mandate the usage of 'Zinc coated steel' in several sectors?.**
 (a) To explore avenues for maximum use of Zinc, that is abundant in India.
 (b) To minimize corrosion losses.
 (c) To boost the production of zinc.
 (d) Zinc is endurable.
76. **1. Bullfighting was common among the ancient tribes who lived in the 'Mullai' geographical division of the ancient Tamilnadu.**
2. Jalli refers to a breed of Cattle in Ancient Tamilnadu.
- (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct
77. **Identify the incorrect pair(s).**
 (a) Kuno – Tributary of Narmada
 (b) Nokrek – World Network of Biosphere
 (c) Salt water Crocodile – Bitar Kanika.
 (d) Both (a) & (b)
78. **What is Terai Arc?.**
 (a) A plan of the protection for plants in terai region.
 (b) A project of tiger protection authority and WWF.
 (c) A strategy to conserve declining vulture population in Nepal.
 (d) None of these
79. **Which of the following statements is/are correct with reference to 'Surya Jyoti'?**
1. It is a low cost and energy efficient lamp useful particularly for urban slum or rural areas which do not get electricity supply.
2. The lamp functions by capturing day light and concentrating and saving it inside which can be used during the night time.
3. This device has been developed by the Department of Renewable Energy as a part of their Green Energy initiatives.
 (a) 1 only
 (b) 2 and 3 only
 (c) 1 and 2 only
 (d) 1, 2 and 3
80. **AMRIT outlet is meant for**
 (a) Jan Aushadi Campaign
 (b) Distributing School text books freely
 (c) Selling tribal forest products
 (d) None of these
81. **Which of the following is/are true?**
 (a) Both tigers and rusty spotted cats inhabit the Nagarjuna Sagar-Srisailem Tiger Reserve in Andhra Pradesh.
 (b) Reputed to be the smallest wild cat at about

half the size of its domestic cousin, the rusty spotted species shares its habitat with the tiger.

- (c) Both (a) & (b)
 (d) Neither (a) nor (b)

82. India joined the club of other 'nuclear triad' powers with INS Arihant. What are the other 'nuclear triad' powers?

1. USA
2. Russia
3. Japan

Which of the statements given above is/are correct?

- (a) 1 and 2 only
 (b) 2 and 3 only
 (c) 1 and 3 only
 (d) 1, 2 and 3

83. Recently, India's highest glaciological research facility was set up in

- (a) Sikkim
 (b) Kashmir
 (c) Ladakh
 (d) Himachal Pradesh

84. Consider the following about National Highways Interconnectivity Improvement Project.

1. It has been approved for development of 1120 kms of National Highways in the States of Karnataka, Odisha, Bihar, Rajasthan and West Bengal.

2. New Development Bank is assisting in this NHIIP.

- (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct
 (d) None is correct

85. Montreal Protocol on Substances that Deplete the Ozone Layer was recently amended at Kigali.

Which of the following statements is/are not true in this context?

1. Parties of Montreal Protocol agreed to phase out Hydrofluorocarbons (HFCs)

thereby preventing global warming by 0.5 C by the end of this century.

2. It is not legally binding and countries can opt out of the agreement at any stage.

3. According to Kigali agreement, India will phase down HFCs by 2028.

- (a) 1 & 2 only
 (b) 2 & 3 only
 (c) 1 & 3 only
 (d) 1, 2 and 3

86. Demographic time-bomb means

- (a) High Infant mortality rate
 (b) An increasing number of older people dependent on pension schemes
 (c) An increasing number of malnourished children aged between 1-5 years
 (d) High Maternal mortality rate

87. Aarambh Initiative is related to

- (a) Indian Ecological Footprint
 (b) Energy Security
 (c) Child Welfare
 (d) Women empowerment

88. With reference to India's nuclear power, consider the following statements:

1. India has 22 operational nuclear reactors, out of which only 8 are not under IAEA safeguards.

2. Those under IAEA safeguards are permitted to use imported uranium.

3. Among the states with operational nuclear reactors, Maharashtra produces the least amount of nuclear power, compared to others.

4. Currently, all the operational reactors are confined to six Indian states only.

Which of the statements given above is/are correct?

- (a) 1, 2 and 4 only
 (b) 1, 2 and 3 only
 (c) 1 and 3 only
 (d) 1, 3 and 4 only

89. Which one of the following is a purpose of the 'Mission Raftaar Project', of the Indian Railways?.
- (a) providing free Wi-Fi in every Railway station by 2022
 (b) providing bio-toilets in every train by 2020
 (c) to raise average speed of both passenger carrying trains and freight carrying trains
 (d) All the above
90. ISRO's DMRJ in news refer to
- (a) A Mou with Russia
 (b) A Dual Mode Project
 (c) A commercial wing of Antrix in Europe
 (d) A fully women lead space mission.
91. MANAK Programme is related to
- (a) Indian Ecological Footprint
 (b) Energy Security
 (c) Radio Collaring
 (d) Attraction of talent to Science
92. Walrus are
- (a) Reptiles
 (b) Mammals
 (c) Birds
 (d) Fishes
93. Mata Prasad Committee submitted its report to suggest reforms in
- (a) Banking
 (b) Manual Scavenging
 (c) Child Labour
 (d) Power Sector
94. Which of the following cities has declared the Ganges dolphin as "City Animal" for the first time?.
- (a) Mumbai
 (b) Guwahati
 (c) Agra
 (d) Kolkata
95. What is "Himawari-9" recently in the news?.
- (a) a next-generation meteorological satellite launched by JAXA
 (b) a mission to study about melting of glaciers in Himalayas
 (c) a mission to study about endangered Taxol in Himalayas
 (d) meteorological satellite designed by ISRO
96. What are "'Aryaman' and 'Atulya' in news?.
- (a) Fast Patrol Vessels
 (b) Fictional Characters of a Novel
 (c) ISRO Missions
 (d) Ayurvedic Medicines by AYUSH Ministry
97. Which of the following countries does not share land boundary with any of the seven Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) countries?.
- (a) Cambodia
 (b) Mongolia
 (c) Laos
 (d) Malaysia
98. Teak, Tendu, Amaltas, Khari are commonly found in
- (a) Montane forests
 (b) Tropical Dry Deciduous Forests
 (c) Shola Forests
 (d) Tropical Evergreen Forests
99. Consider the following statements:—
- (1) Camel milk is unfit for human consumption as it contains a virulent protein to which Man is highly susceptible.
 (2) Camel milk has higher levels of fat and protein than cow's milk.
 (3) Camel milk has higher cholesterol levels than cow's milk.
- Which of the statements are correct?
- (a) 1 and 2
 (b) 2 and 3
 (c) 2 only
 (d) 1, 2 and 3
100. Which is/are false?.
- (a) National Committee on Trade Facilitation launched has been constituted in line with the World Trade Organization's Trade Facilitation

Raja Sir's

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

IAS EXPRESS (ISSUES - AUGUST 2016 - December 2016)

CSAT PAPER 1 - 2017 - TEST - 12

CrackingIAS.com

Agreement.

- (b) India has ratified the Trade Facilitation Agreement of the World Trade Agreement.
- (c) Both (a) and (b)
- (d) Neither (a) nor (b)

Crackingias.com

9884554654

Raja Sir's

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

GS MAINS 2017 Score Maximiser
Classes from **June 25, 2017**
NO CROWD.
ONLY 25 PER BATCH.
Only Institute in Chennai
Teaches Writing Skills & Equips you well

*GS 1 & 2
Sail thru GS Ocean

*GS 4 Ethics
None teaches better than us.

*GS 3
Redefining Economics & Science

*Essay Enrichment
Real Time Essay Expert

Quality Study Materials
No Bookish Teaching

Early Bird Offer
Till May 5
SAVE 5000

FREE ESSAY PROGRAMME

CALL/SMS/ Whats App Yout Name to : 98845 54654

2nd Floor. New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY

Call: us: 09884554654

Political Science, Sociology, General Studies, Essay & CSAT

IAS Express – a monthly current affairs booklet

11

1. **Petrapole-Benapole border checkpoint between India and**
 - (a) Afghanistan
 - (b) Srilanka
 - (c) Bangaldesh
 - (d) Pakistan

2. **Consider the following statements about Japanese Encephalitis.**
 1. It mostly affects children below 15 years of age.
 2. Imojev is a medicine containing the active ingredient(s) japanese encephalitis live vaccine.**Which of the above statements is/are true?**
 - (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

3. **Which of the following statements is/are FALSE?**
 1. Adenoviruses are principally suitable as vectors for vaccines for their ability to induce strong immune responses.
 2. As most humans have already had contact with cold viruses, their trained immune system will dispose of the vectors before they have a chance to deliver their vaccine load.
 - (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

4. **Medini Puraskar Yojana award is given to**
 - (a) Encourage writing books in Hindi on environment.
 - (b) Encourage efforts of women in water conservation.
 - (c) Encourage efforts of Gram Panchayats in environmental education.
 - (d) Encourage films on Wild Life Conservation.

5. **Which of the following statements is/are FALSE?**
 1. Muga silk is produced only in Assam in the world.
 2. Sasaram - tomb of Shershah Suri is in Bihar. (a) Only 1
 - (b) Only 2
 - (c) 1 & 2
 - (d) Neither 1 Nor 2

6. **Which of the following is/are true?.**
 - (a) In India banana ranks first in production and third in area among fruit crops.
 - (b) Deep, rich loamy soil with pH between 6.5 – 7.5 is most preferred for banana cultivation.
 - (c) Neither (a) nor (b)
 - (d) Both (a) and (b)

7. **Catalytic Development Programme is related to**
 - (a) Sericulture
 - (b) Climate Change Mitigation
 - (c) Women Empowerment
 - (d) Bio Fuel production

8. **Identify the incorrect statement(s).**
 1. Forest and wildlife is in the Concurrent list.
 2. Wildlife Crime Control Bureau has been constituted, by amending the Environment (Protection) Act, 1986.
 - (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

9. **The only tin ore producing state in India is**
 - (a) Jharkhand
 - (b) Chhattisgarh
 - (c) Bihar
 - (d) Rajasthan

10. **Which of the following is incorrect about Article 21 of the Indian Constitution?.**
 - (a) It includes right against torture and assault by State or other functionaries.
 - (b) The right under (a) is even available to foreign citizens, under-trials, prisoners and detenues in custody.
 - (c) Both (a) and (b)
 - (d) Neither (a) nor (b)

11. **Chicago convention is related to**
 - (a) Civil Aviation.
 - (b) Protection of Dugongs.

- (c) Pollution due to oil spills.
(d) Bio-fuels
12. **Correct statements w.r.t. DMH 11 - Genetically Modified Mustard is/are**
 (1) It was an Indian government sponsored project.
 (2) This project was in association with Monsanto.
 (3) It was developed by IARI, Pusa.
 (a) Only 2 & 3
 (b) Only 3
 (c) 1, 2 & 3
 (d) Only 1
13. **Coal Bed Methane contains**
 (1) Nitrogen.
 (2) Carbon dioxide.
 (3) Ethane.
 (a) Only 1 & 3
 (b) Only 3
 (c) 1, 2 & 3
 (d) None of these.
14. **1. Surcharge is imposed on the tax payable or on the total value of service and cess is calculated on surcharge.**
2. Both surcharge and cess go to the consolidated fund of India.
3. Surcharge is levied as a percentage on the income tax payable as per normal rates.
4. Both surcharge and cess need not be shared with the states.
Which of the above statements are correct?.
 (a) 1 and 2 only
 (b) 1, 2 and 3 only
 (c) 1, 2 and 4 only
 (d) All of the above
15. **Matchstick head contains**
 1. potassium chlorate
 2. antimony sulphide
 3. powdered glass
 (a) 1 and 2 only
 (b) 1 only
 (c) 1 and 3 only
 (d) 1, 2 and 3
16. **Heritage Hero award is given by**
 (a) IUCN
 (b) UNEP
 (c) UNESCO
 (d) None of these
17. **Kraken Mare is in**
 (a) China
 (b) Russia
 (c) India
 (d) None of these
18. **The term 'MICIUS' frequently seen in news is**
 (a) An unique hydroxylate component of Smog
 (b) An Oil Micelle Zapper
 (c) A quantum satellite
 (d) A dwarf planet that is beyond Milky Way
19. **Washington Consensus is concerned with**
 (a) Protectionism
 (b) Open trade
 (c) India's Act East Policy
 (d) India's Link West Policy
20. **The Economic Survey 2015-16 emphasized that addressing the stressed assets problem would require 4R's. Which of the following is not among these 4R's?.**
 (a) Recapitalisation
 (b) Repayments
 (c) Recognition
 (d) Reform
21. **What is meant by 5/25 Refinancing of Infrastructure Scheme?.**
 (a) 1/25th of the Project cost would be borne by the concerned Union Government.
 (b) 1/5th of the Project cost would be borne by the concerned State Governments.
 (c) Lenders were allowed to extend amortisation periods to 5 years with interest rates adjusted every 25 years.
 (d) Lenders were allowed to extend amortisation periods to 25 years with interest rates adjusted every 5 years.

22. **H R Khan committee report is related to**
 (a) Women Welfare
 (b) Child Welfare
 (c) Animal Welfare
 (d) Banking
23. **What is meant by a "Determinate Plant"?**
 (a) Growth that is terminated genetically.
 (b) Growth that is not terminated.
 (c) A plant not growing perfectly straight.
 (d) A plant growing perfectly straight.
24. **Which one of the following statements is/are true?.**
 (a) Ken is the last tributary of the Yamuna before it joins the Ganga.
 (b) The Davdhan dam is to be built on the Ken near its source.
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
25. **Gravitational waves were first proposed by**
 (a) Albert Einstein
 (b) Galileo
 (c) Newton
 (d) Kepler
26. **Bolsa Família is a social welfare program of**
 (a) Brazil
 (b) Mexico
 (c) Russia
 (d) Colombia
27. **Which of the following statements are true?**
 1. The report of the Comptroller and Auditor General of India can be considered by the Lok Sabha and the Rajya Sabha in their joint sessions.
 2. The report of the Comptroller and Auditor General deals with the income and expenditure of any state corporation.
 3. No committee is required to scrutinize the report of the Comptroller and Auditor General before the Lok Sabha considers it.
 4. The report of the Comptroller and Auditor General of India constitutes the basis of scrutiny to be made by the Public Accounts Committee of the Parliament.
- (a) 1, 3 and 4 only
 (b) 1 and 4 only
 (c) 2 and 4 only
 (d) 1, 2 and 4
28. **Which state stands first in mineral revenue among the important Mineral Producing states of India?.**
 (a) Bihar
 (b) Madhya Pradesh
 (c) Odisha
 (d) Andhra Pradesh
29. **What is/true about "Cabinet Committee on Investments"?**
 (a) It is meant to expedite the clearance process for infrastructure projects worth Rs. 100 crore or more.
 (b) It is headed by the Prime Minister.
 (c) Neither (a) nor (b)
 (d) Both (a) and (b)
30. **Match the Following**
- | List 1 | List 2 |
|-------------------------------------|--|
| A. Department of Expenditure | 1. Banking |
| B. Department of Economic Affairs | 2. Direct & Indirect taxes |
| C. Department of Revenue | 3. Preparation of the Union Budget |
| D. Department of Financial Services | 4. Pre-sanction appraisal of major schemes |
- (a) A - 4, B - 3, C - 2, D - 1
 (b) A - 4, B - 2, C - 3, D - 1
 (c) A - 4, B - 3, C - 1, D - 2
 (d) A - 4, B - 2, C - 1, D - 3
31. **Forest Survey of India (FSI) assesses forest cover of the country by interpretation of remote sensing satellite data and publishes the results in a report called 'State of Forest Report (SFR)'. This report is**
 (a) Biennial
 (b) Annual
 (c) Triennial
 (d) Quadrennial
32. **Who is the Inventor of Excimer LASER used for**

- LASIK eye Surgery?**
 (a) Shiv Akron
 (b) Both (c) and (d) below
 (c) Samuel Morse
 (d) Dr Rangaswamy Srinivasan
33. Which of the following statements is/are FALSE?
 1. Helium is widely used in medical scanners and exotic machines such as the Large Hadron Collider.
 2. Helium is the second-most abundant element in the universe.
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
34. Which of the following statements is/are true?
 1. Archaeological Survey of India (ASI) is the world's biggest state-run archaeology.
 2. Archaeological Survey of India (ASI) was established during the viceroyalty of Lord Canning.
 (a) Only 2
 (b) Only 1
 (c) Both 1 and 2
 (d) Neither 1 nor 2
35. The International ARGO Project studies
 (a) Soil
 (b) Atmospheric air
 (c) Oceans
 (d) Clouds
36. Which of the following is/are true w.r.t. Public Accounts Committee ?
 1. It is formed every 5 years.
 2. CAG assists the committee during the course of investigation.
 3. A Minister is not eligible to be elected as a member of the Committee.
 4. The Chairman is appointed by the Prime Minister with the recommendation of the Speaker.
 (a) 1 and 2 only
 (b) 2 only
 (c) 2 and 3 only
 (d) 1, 2, 3 and 4
37. Correct statements w.r.t. Epta protein is/are
 (1) It shields superbugs from antibiotics.
 (2) It allows some strains to shrug off colistin, a last antibiotic available in the world for treating infections when all other antibiotics fail.
 (3) A similar variant of EptaA was called MCR-1.
 (a) Only 1 & 3
 (b) Only 3
 (c) 1, 2 & 3
 (d) None of these.
38. A compound (gelator) developed by IISER Researchers is used to
 (a) Increase the efficiency of LEDs
 (b) Treat Oil Spillages
 (c) Treat MDR TB
 (d) Control spread of Mosquitoes.
39. 1. The shadow banks will be able to perform every function of banking except accept deposits from the public.
 2. Shadow banks are backed by the central bank.
 3. There would be no reserve ratios or capital ratios to maintain and therefore no need to borrow from interbank markets for shadow banks.
 (a) 1 and 2 only are true.
 (b) 1 only is true.
 (c) 1 and 3 only are true.
 (d) 1, 2 and 3 are true.
40. Which of the following is/are true?
 1. National Legal Services Authority organises Lok Adalats for amicable settlement of disputes.
 2. NALSA has been constituted under the Legal Services Authorities Act, 1987, to provide free legal services to weaker sections of society.
 3. Services provided by the NALSA doesn't include criminal matters.
 (a) 1, 2 and 3
 (b) 1 and 2
 (c) Only 3
 (d) 2 and 3

41. The term 'BILI' frequently seen in news is
 (a) a scheme for litigations related to Bio-Piracy
 (b) a fluorescence-based lidar
 (c) a handy kit for Cancer test
 (d) a scheme for Blind People's Education
42. (1) Partially hydrogenated oils (PHOs) are the major dietary sources of industrially-produced trans fat in processed food.
 (2) Trans fats can cause type-2 diabetes.
 Which of the statements given above is/are incorrect?
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
43. (1) Tantalum Carbide
 (2) Hafnium Carbide
 Which of the above is/are correct world's most heat resistant material(s)?
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
44. Twin Balance Sheet Syndrome is due to
 1. Surge in borrowing
 2. Ever-greening of loans
 3. Stringent regulation
 4. Lack of infrastructure
 (a) 1 and 2 only
 (b) 1, 3 and 4 only
 (c) 1, 2 and 3 only
 (d) 1, 2, 3 and 4
45. 1. Since June 2014, when international oil prices started declining, India has increased the petrol tax over 150 percent.
 2. India's reliance on fossil fuels remains slightly above China but will overtake China in 2018.
 Which of the above statements is/are true?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
46. Which of the following correctly describes "Fiscal Activism"?
 (a) There is maximum concern about debt and greater emphases on public spending.
 (b) There is maximum concern about debt and greater emphases on public spending.
 (c) There is maximum concern about debt and lesser emphases on public spending.
 (d) There is minimum concern about debt and greater emphases on public spending.
47. Top export destinations of India as per recent Economic Survey are
 (a) USA followed by UAE and Hong Kong
 (b) UAE followed by USA and Hong Kong
 (c) UK followed by USA and Hong Kong
 (d) USA followed by UK and Hong Kong
48. The states that are top in arm's length trade
 (a) Uttarakhand, HP and Goa
 (b) Uttarakhand, Goa and HP
 (c) Goa, MP, Uttarakhand
 (d) Uttarakhand, Goa and MP
49. 1. Asia - Pacific Parliamentary Forum is a branch of ADB.
 2. India is the second largest shareholder in ADB.
 Which among the above statements is / are correct?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
50. RM 50-03 that was in news refer to
 (a) Watch
 (b) Galaxy
 (c) Radar
 (d) Vaccine
51. Core engine of Kaveri is known as
 (a) Shimsha
 (b) Noyyal
 (c) Bhavani
 (d) Kabini

52. Consider the following statements w.r.t. Indirakranthi Patham Scheme.
 1. The Scheme was set up by the Andhra Pradesh State Government.
 2. It aims to empower women politically.
 Which of the above statements is/are correct?
 (a) Only 2
 (b) Only 1
 (c) Both 1 and 2
 (d) Neither 1 nor 2
53. Which one of the following is not a department in the Ministry of Finance, Government of India?
 (a) Department of Economic Affairs
 (b) Department of Expenditure
 (c) Board of Direct Taxes
 (d) Banking Division
54. The Golden Chariot is a luxury tourist train that connects the important tourist spots in
 (a) Karnataka, Goa, Kerala
 (b) Karnataka, Goa, Kerala & Tamil Nadu
 (c) Karnataka, Goa, Kerala & Tamil Nadu as well as Pondicherry
 (d) Karnataka, Goa & Tamil Nadu as well as Pondicherry
55. Low Temperature Thermal Desalination (LTTD) is based on the principle that
 (a) Water boils at low pressure.
 (b) Fractional Distillation of Water at low pressure.
 (c) Semi permeable membrane allows only salt particles at low pressure.
 (d) Colloidal nature of sea water and its ability to scatter heat at low pressure.
56. Proterozoic basins in India are primarily associated with
 (a) Coal Bed Methane reserves
 (b) Shale gas reserves
 (c) Uranium reserves
 (d) None of these
57. Project INDUS – an Indo – US initiative focuses on
 (a) Agriculture
 (b) Nuclear Energy
 (c) Bio-Fuels
 (d) Child Labour
58. Identify the incorrect statement(s).
 1. Tamilnadu has nearly half of the country's mangroves.
 2. Madhya Pradesh has the largest area under forest cover.
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
59. Which of the following are the subsidiaries of National Aviation Company of India Ltd?
 1. Air India Charters Ltd
 2. Vayudoot Ltd
 3. Airlines Allied Services Ltd
 4. Air India Engineering Ltd
 (a) 1, 2 and 3 only
 (b) 1, 2 and 4 only
 (c) 2 and 4 only
 (d) 1, 2, 3 and 4
60. National Council for Senior Citizens to advise the Central and State governments on the welfare of senior citizens is headed by
 (a) Minister of Social Justice and Empowerment
 (b) Prime Minister
 (c) Deputy Chairman, NITI Aayog.
 (d) Cabinet Secretary
61. Match the Following
- | List 1 | List 2 |
|----------------------|---------------------|
| A. Ex Lamitye | 1. India-UAE |
| B. Garuda Shakti | 2. ASEAN Plus |
| C. Exercise Force 18 | 3. Indo - Indonesia |
| D. Desert Eagle | 4. Indo-Seychelles |
- (a) A - 4, B - 3, C - 2, D - 1
 (b) A - 4, B - 2, C - 3, D - 1
 (c) A - 4, B - 3, C - 1, D - 2
 (d) A - 4, B - 2, C - 1, D - 3
62. FC-31 Gyrfalcon was developed by
 (a) China
 (b) Pakistan
 (c) Russia
 (d) Iran

63. According to National Bio-diesel Mission (NBM) which of the following has been identified as the most suitable tree-borne oilseed for bio-diesel production on wastelands?
 (a) Rapeseed oil
 (b) Jatropha curcas
 (c) Pongamia pinnata
 (d) Soybean
64. The World Development Report (WDR) is an annual report published since 1978 by the
 (a) IBRD
 (b) UNDP
 (c) IMF
 (d) WEF
65. The term 'Exoplanet' frequently seen in news is
 (a) An inhospitable planet beyond Milky Way
 (b) A dwarf planet that is a part of our solar system
 (c) A planet that does not orbit the Sun and instead orbits a different star
 (d) A dwarf planet that is beyond Milky Way
66. (1) Nonivamide is an organic compound found characteristically in natural chilli pepper.
 (2) PAVA shells are a chilli-based less-lethal munition.
 Which of the statements given above is/are correct?
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
67. (1) Aditya is a spacecraft to study the Sun.
 (2) This will be the second Indian space mission (after Chandrayaan) to be placed at Lagrangian point L1 -- far away from the Earth from where continuous solar observations are possible.
 Which of the statements given above is/are correct?
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
68. "Liquidity trap" is best described by
 (a) expansionary monetary policy does not encourage economic growth
 (b) government undergoes liquidation of the government holdings on larger-scale to reduce fiscal
 (c) open market operations results in decrease in interest rates
 (d) government prefers fiscal policies over monetary policies to regulate the money supply
69. Phoenix scenario refers to
 (a) containing the NPAs
 (b) a scenario in which accelerating growth would gradually raise the cash flows of stressed companies, eventually allowing them to pay back their loans.
 (c) a scenario in which decelerating growth would gradually lower the cash flows of stressed companies, eventually disallowing them to pay back their loans.
 (d) sub-prime lending
70. 1. The peninsular states exhibit a pattern that is closer to China and Korea, with sharp rises and declines in the working age population.
 2. The hinterland states will remain relatively young and dynamic, characterized by a rising working age population for some time plateauing out towards the middle of the century.
 True statements w.r.t Demographic Dividend as per recent Economic Survey is/are
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
71. Which of the following correctly describes "countercyclical fiscal policy"?
 (a) reducing spending during a boom period
 (b) cutting taxes during a recession
 (c) Both (a) & (b)
 (d) Neither (a) Nor (b)
72. Top import destinations of India as per recent Economic Survey are
 (a) China, UAE and USA
 (b) UK followed by USA and Hong Kong
 (c) UK followed by USA and Hong Kong
 (d) China, USA and UAE

73. **First country to ban FM radio broadcasting**
 (a) Canada
 (b) Finland
 (c) Norway
 (d) Mexico
74. **India INX is a wholly - owned subsidiary of**
 (a) NSE
 (b) SEBI
 (c) BSE
 (d) NCDEX
75. **Eilat vaccine that was in news is related to**
 (a) Typhoid
 (b) Chikungunya
 (c) TB
 (d) Malaria
76. **Where is the Botanic Garden Of The Indian Republic (BGIR)?.**
 (a) Himachal Pradesh
 (b) Pune
 (c) Kerala
 (d) Noida
77. **Which of the following will be damaged by the proposed 300 MW Alaknanda project?.**
 (a) Nanda Devi National Park
 (b) Valley of Flowers
 (c) Neither (a) nor (b)
 (d) Both (a) and (b)
78. **Refineries operating in India under Private sector are**
 1. Reliance Industries Limited
 2. Essar Oil Limited
 3. Numaligarh Refinery Limited
 (a) Only 1
 (b) Only 1 & 3
 (c) 1 and 2
 (d) 1, 2 & 3
79. **Which of the following statements are true?**
 1. The Universal Service Obligation Fund was formed by an Act of Parliament.
 2. The National e-Governance Plan (NeGP) comprises of 27 Mission Mode Projects (MMPs).
3. Services of India Development Gateway (InDG) is available in six languages.
 4. Like Central administrative Tribunal (CAT), Cyber Appellate Tribunal (CAT) has been established under the Article 323 A (2) of the Indian constitution.
 (a) Only 1 and 3
 (b) Only 1, 3 and 4
 (c) Only 1, 2 and 3
 (d) 1, 2, 3 and 4
80. **Which of the following statements are true?**
 1. National Highways comprises only 2 per cent of the total length of roads.
 2. India is the 16th largest Maritime country in the World.
 3. The Indian Maritime University (IMU) is headquartered in Cochin.
 4. Six waterways have been declared as national Waterways.
 (a) 1, 2 and 3 only
 (b) 1 and 4 only
 (c) 2 and 4 only
 (d) 1, 2 and 4
81. **Lithium-ion batteries have been in the news frequently. Which of the following is/are true w.r.t Lithium-ion batteries?**
 1. They have a very high energy density.
 2. They are non-rechargeable batteries.
 3. They have memory effect.
 (a) 1, 2 and 3
 (b) 1 only
 (c) 1 and 2 only
 (d) 2 and 3 only
82. **Where are the Prabhu Mountains of the Puranas?**
 (a) Arunachal Pradesh
 (b) Thiruvananthapuram
 (c) Pune
 (d) Lucknow
83. **Which of the following state is the abode of Siroy Lily (Lilium macklineae), the flower which is not found elsewhere in the world?**
 (a) Himachal Pradesh
 (b) Manipur

- (c) Assam
(d) Manipur
84. Which of the following is the largest single deposit of heavy mineral resources in India? (a)
Thummalapalle
(b) Puri
(c) Jaduguda
(d) Nokrek
85. GPS Aided Geo Augmented Navigation (GAGAN) is being implemented by
(a) ISRO only
(b) DRDO only
(c) AAI and ISRO
(d) DRDO and ISRO
86. What is a "Chilcot report" related to?
(a) Banking mechanism that deals with Funding of terrorists.
(b) Child Labour in Afro-Asian Countries.
(c) UK's involvement in the 2003 Iraq War.
(d) None of these.
87. Identify the correct statement (s)
(a) A Fast Neutron reactor needs no neutron moderator.
(b) 'MICA' that was in news w.r.t. Indian Defence industry is a missile.
(c) XMU-MP-1 is an Asteroid.
(d) All the above are correct.
88. India has ranked a low 110 out of 149 nations assessed on where they stand with regard to achieving the Sustainable Development Goals, according to a new index which is topped by Sweden and shows all countries face major challenges in achieving these ambitious goals. "Sustainable Development Goal" Index is released by
(1) Sustainable Development Solutions Network
(2) UNDP.
(3) WB
(a) Only 1 & 3
(b) Only 3
(c) 1, 2 & 3
(d) Only 1
89. Which of the following is/are true?
1. Appellation of origin is a special kind of geographical indication.
2. A geographic name itself is not necessarily a GI.
3. A trademark is an individual right, while a GI is a collective right.
(a) 1, 2 and 3
(b) 1 and 3
(c) Only 3
(d) 2 and 3
90. (1) CERN is the world's largest nuclear and particle physics laboratory.
(2) Presently CERN has 22 member states, four associate member states, and the observer status is given to four states and three International Organizations.
Which of the statements given above is/are incorrect?
(a) 1 & 2
(b) Only 2
(c) Only 1
(d) Neither 1 nor 2
91. Consider the following statements.
1. With LiFi, data is transmitted by modulating the intensity of the light, which is then received by a photo-sensitive detector, and the light signal is demodulated into electronic form.
2. Wi-Fi uses radio waves while Li-Fi runs on visible light.
Which of the above statements is/are true?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
92. Consider the following statements.
1. Millimeter waves are longer than infrared waves or x-rays, but shorter than radio waves or microwaves.
2. Facebook Connectivity Lab announced a record-setting successful test of its millimeter wave technology for providing high-speed data over long distances.

Which of the above statements is/are true?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

93. Consider the following statements about Green India Mission:

1. It is one of the missions under the National Action Plan on Climate Change (NAPCC).
2. It will be implemented directly by state forest departments.
3. Poverty Alleviation is one of the major objectives of the mission.

Which of the above statements is/are false?.

- (a) 1, 2 and 3
- (b) 1 and 3
- (c) Only 2
- (d) 2 and 3

94. Asset Quality Review is a financial inspection conducted by

- (a) RBI
- (b) NITI Aayog
- (c) Finance ministry
- (d) Company Affairs ministry

95. 'Public Sector Asset Rehabilitation Agency' (PARA) would receive funds from

1. Government issues of securities
2. Capital Market
3. RBI

- (a) 1, 2 and 3
- (b) 1 and 3
- (c) Only 2
- (d) 2 and 3

96. Which of the following is/are correct?.

- (a) The headline inflation is measured by the Wholesale Price Index (WPI).
- (b) CPI-based Core inflation does not take food and fuel inflations into account.
- (c) Both (a) & (b)
- (d) Neither (a) Nor (b)

97. 'International Debt Statistics 2017' was published by

- (a) WEF
- (b) WB
- (c) IMF
- (d) WTO

98. Which one of the following statements is/are true about "Kuchipudi"?

- (a) Kuchipudi style was conceived by Siddhendra Yogi.
- (b) Kuchipudi is performed to Hindustani music.
- (c) Both (a) & (b)
- (d) Neither (a) nor (b)

99. Consider the following statements.

1. South Asia Satellite is a 1,230-kg communication spacecraft.

2. It is funded entirely by India.

Which of the above statements is/are true?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

100. Ratle Hydroelectric Plant is constructed on

- (a) Ravi
- (b) Kishenganga
- (c) Chenab
- (d) Beas

GS MAINS 2017 Score Maximiser
Classes from June 25, 2017
EARLY BIRD OFFER TILL MAY 5. SAVE 5000.
NO CROWD. ONLY 25 PER BATCH.

Only we @ Chennai teach Writing Skills.
 Prediction is our Diction in GS.

1. **Badme is a territorial dispute between**
 - (a) Sudan & Ethiopia
 - (b) Libya & Ethiopia
 - (c) Somalia & Ethiopia
 - (d) Eritrea & Ethiopia

2. **Shaksgam Valley is a territorial dispute between India and**
 - (a) Bangladesh
 - (b) China
 - (c) Myanmar
 - (d) Bhutan

3. **Consider the following statements regarding 'Chhau dance' :**
 1. It is a combination of music, dance and Martial arts.
 2. It is a traditional dance form of Nagaland.
 3. It is yet to be listed on UNESCO's world heritage list of dances.

Which of the statements given above is /are correct?.

 - (a) 1 only
 - (b) 2 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3

4. **Consider the following about Infrastructure Debt Funds (IDFs).**
 1. They must be setup as banking company to operate in India.
 2. The government has banned participation of off-shore investors to curb black money flows.
 - (a) Only 1 is false
 - (b) Only 2 is false
 - (c) 1 and 2 are true
 - (d) 1 and 2 are false

5. **Which of the following statements is true about Ilemi triangle?.**
 - (a) It is in Pacific Ocean where the ships disappear without any identifiable reason.
 - (b) The Ilemi Triangle is an area of disputed land in East Africa.
 - (c) It is in Atlantic Ocean where the ships disappear without any identifiable reason.
 - (d) The Ilemi Triangle is an area of Boko Harams in Nigeria.

6. **Marshall Plan is related to**
 - (a) Russian aid effort for Cuba during Cuban missile crisis
 - (b) Russian aid effort for South Vietnam during Vietnam war.
 - (c) U.S. aid effort for Asia after World War II.
 - (d) U.S. aid effort for Europe after World War II.

7. **The first Gender Budgeting statement appeared in the Union Budget**
 - (a) 2004-05
 - (b) 2006-07
 - (c) 2005-06
 - (d) 2008-09

8. **Head of the Expenditure Management Commission**
 - (a) Minister of Trade & Commerce
 - (b) Director, SEBI
 - (c) Governor, Reserve Bank of India
 - (d) Minister of Finance

9. **Consider the following statements.**
 1. Only the members of the World Bank can become members of International Finance Corporation (IFC).
 2. International Finance Corporation (IFC) encourages development of the private sector in the member-countries.
 - (a) Only 2 is true
 - (b) Only 1 is true
 - (c) Both 1 and 2 are true
 - (d) Neither 1 nor 2 is true

10. **Which of the following is/are true?.**
 1. Methyl-mercury is the most toxic form.
 2. Inorganic mercury is the kind found in

- thermometers and some light bulbs.**
(a) Both 1 and 2 are true
(b) Only 1 is true
(c) Only 2 is true
(d) Neither 1 nor 2 is true
11. **'Mahabhashya' a commentary on Sanskrit book Ashtadhyayi was authored by**
(a) Patanjali
(b) Kshemendra
(c) Mudraraksha
(d) Kalahana
12. **Cryogenic engine technology has been developed by**
(a) India, USA, Germany, France and Japan only
(b) India, Russia, France, China and USA only
(c) USA, China and United Kingdom only
(d) India, Russia, US, France, China and Japan only.
13. **Which of the following is/are correct w.r.t Track -1 and Track -2 diplomacy?**
(a) Track-1 is conducted at institutional levels
(b) Track -2 aims at mobilizing nongovernmental organizations, business groups and strategic institutions.
(c) Both (a) and (b)
(d) Neither (a) nor (b)
14. **Baengnyeong Island is a bone of contention between**
(a) China and South Korea
(b) China and Japan
(c) North Korea and South Korea
(d) North Korea and Japan
15. **Which of the following statements is/are false?**
1) Harappan society was stratified and hierarchical.
2) Harappan religion can best be described as Shamanistic.
- (a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
16. **First Indian firm to list Masala Bond on LSE**
(a) HDFC
(b) SBI
(c) ICICI
(d) YES Bank
17. **The Shangri-La Dialogue aims at**
(a) Security
(b) Sustainable development
(c) Achieving SDGs
(d) Gender equality
18. **Kajaki Dam Project flashed in news recently. Where is it?.**
(a) Thailand
(b) Afghanistan
(c) Cambodia
(d) Myanmar
19. **A debt-GDP ratio above cent per cent may lead to**
(a) Faster growth of the economy
(b) High tax burden in future
(c) Both (a) and (b)
(d) Neither (a) nor (b)
20. **Species that are endemic to India include**
1. Lion Tailed Macaques
2. Black Buck
3. Greater One-Horned Rhinoceros
(a) 1 and 2 only
(b) 2 and 3 only
(c) 3 only
(d) 1, 2 and 3

21. **The Central Bureau of Investigation (CBI) is under the administrative control of**
 (a) Ministry of Home Affairs
 (b) Department of Personnel and Training
 (c) Department of Economic Affairs
 (d) PMO
22. **Increasing unrest due to hukou system was major issue in recent times in**
 (a) Japan
 (b) China
 (c) Pakistan
 (d) Syria
23. **Boraibari is a territorial dispute between India and**
 (a) Bangladesh
 (b) China
 (c) Myanmar
 (d) Bhutan
24. **Transboundary Manas Conservation Area encompasses**
 (a) India and Bhutan
 (b) India, Myanmar and Bhutan
 (c) India, China and Bhutan
 (d) India, Myanmar, China and Bhutan
25. **What is "Terrapro" that was in news?.**
 (a) It is company.
 (b) It is an imaging technology.
 (c) It is an electronic instrument.
 (d) It is a proto type Nuclear Fusion device made by DRDO.
26. **Demographic gap means**
 (a) Difference between MMR and IMR.
 (b) Difference between male literacy rate and female literacy rate.
 (c) Difference between total youth population and total aged population
 (d) Difference between birth rate and death rate
27. **Barisan Revolusi Nasional (BRN) rebel group is active in**
 (a) Iran
 (b) Thailand
 (c) Cambodia
 (d) Syria
28. **Indian national calendar is based on the Saka calendar starting in 78 A.D. This date signifies**
 (a) victory of King Vikramaditya over the Sakas.
 (b) the accession of Kanishka.
 (c) the adoption of Buddhism by Ashoka.
 (d) the beginning of Maurya rule.
29. **Consider the following with reference to the Vienna Convention and its Montreal Protocol.**
 1. They are international treaties specifically for the protection of the Stratospheric Ozone layer.
 2. They have been universally ratified by all United Nations member countries.
 (a) Only 1 is false
 (b) Only 2 is false
 (c) 1 and 2 are true
 (d) 1 and 2 are false
30. **A tax is buoyant**
 (a) When revenues increase by more than 10 per cent for a 1 per cent increase in GDP.
 (b) When revenues increase by more than 10 per cent for a 10 per cent increase in GDP.
 (c) When revenues increase by more than 1 per cent for a 1 per cent increase in GDP.
 (d) When revenues increase by more than 1 per cent for a 10 per cent increase in GDP.
31. **Where are Galgalato mountains that are one of the crisis ridden areas in the world today?.**
 (a) Sudan
 (b) Libya
 (c) Somalia
 (d) Yemen

32. **"Bhim Yatra" seen in news, is related to**
 (a) a movement against waiver of Haj Subsidy.
 (b) a movement against manual scavenging.
 (c) a movement against Child labour.
 (d) a movement to discourage child marriage.
33. **Identify the correct match.**
 (a) Subernarekha: Odisha
 (b) Coringa: Kerala
 (c) Coondapur: Maharashtra
 (d) Veldur: Telangana
34. **Which of the following countries border Sea of Japan?.**
1. Japan 2. North Korea
3. Russia 4. South Korea
 (a) Only 1 and 2.
 (b) Only 1, 2 and 3.
 (c) Only 2, 3 and 4.
 (d) 1, 2, 3 and 4
35. **Where is Sonadia island?**
 (a) Bangladesh
 (b) China
 (c) Myanmar
 (d) Bhutan
36. **1. The Rig-vedic society was largely an egalitarian society.**
2. The women in Rig-vedic society enjoyed respectable position.
 (a) Only 1 is false
 (b) Only 2 is false
 (c) 1 and 2 are true
 (d) 1 and 2 are false
37. **Tejaswini Project is concerned with**
 (a) SC/ST skill development
 (b) Welfare of adolescent girls and young women focusing on education and skill development
 (c) Reducing Maternal mortality
 (d) Health of pregnant and lactating women
38. **Consider the following statements.**
1. Asian Development Bank (ADB)'s membership consists of countries of the Asian region only.
2. India is only an observer member not a full time member of ADB.
 (a) Both 1 and 2 are true
 (b) Only 1 is true
 (c) Only 2 is true
 (d) Neither 1 nor 2 is true
39. **Global Hunger Index is calculated by taking into account**
 (a) Undernourished population
 (b) Child stunting
 (c) Infant mortality rate
 (d) All the above
40. **About "GraphAir" technology**
1. It transforms soybean oil, a renewable, natural material into Graphene Films in a single step.
2. Its main demerit is it is not integration friendly.
 (a) Only 1 is false
 (b) Only 2 is false
 (c) 1 and 2 are true
 (d) 1 and 2 are false
41. **Identify the incorrect statement(s).**
1. Red sandstone was used both by Sultanate and Mughal architectures.
2. Humayun's tomb and Taj Mahal in India are the most famous examples of Charbagh style.
 (a) 1 & 2
 (b) Only 2
 (c) Only 1
 (d) Neither 1 nor 2
42. **The southernmost and northernmost hubs on the International North South Transport Corridor (NSTC) respectively are**
 (a) Astrakhan and Vladivostok

- (b) Mumbai and Moscow
(c) Tehran and Chabahar
(d) Bandar Anzali and Azerbaijan
43. Consider the following statements.
1. Putting monetary value to the ecosystem is an idea that was initiated by The Economics of Ecosystem and Biodiversity (TEEB) Study.
2. The TEEB study was commissioned by the G-8+5 and was launched in 2007 by Germany and the European Commission.
(a) Only 2 is true
(b) Only 1 is true
(c) Both 1 and 2 are true
(d) Neither 1 nor 2 is true
44. Which of the following is/are true w.r.t India's Nuclear Doctrine?
(a) Radiological weapons is excluded from the nuclear doctrine.
(b) The key to the deterrence logic is that all players in the nuclear game abide by its rationality and act accordingly.
(c) Both (a) and (b)
(d) Neither (a) nor (b)
45. The broad meaning of Sanskritisation is
(a) Horizontal mobility
(b) Cultural upward mobility
(c) Structural mobility
(d) Parochialisation
46. The Genetic Engineering Appraisal Committee (GEAC) has given approvals for confined field trials of several Genetically Modified (GM) crops for generation of bio-safety data of
1. Rubber 2. Wheat
3. Pigeon Pea 4. Groundnut
(a) Only 1 and 3
(b) Only 1, 3 and 4
(c) Only 1, 2 and 3
(d) 1, 2, 3 and 4
47. The G8 comprises seven of the world's leading industrialized nations, and
(a) Russia
(b) China
(c) India
(d) Singapore
48. The Egmont Group is related to
(a) Financial Intelligence
(b) Refugee Resettlement
(c) Sharing of international rivers
(d) Energy security
49. Sources used to generate "second generation" bio-fuels
1. Bamboo
2. Bagasse
3. Rice
(a) 1 only
(b) 1 and 2 only
(c) 2 and 3 only
(d) 1, 2 and 3
50. Consider the following about the Wildlife Crime Control Bureau (WCCB). 1. It is a statutory multi-disciplinary body to combat organized wildlife crime in the country. 2. It is mandated to collect intelligence and disseminate the same to State governments and other enforcement agencies. Which of the above is/are correct?
(a) Only 1 is false
(b) Only 2 is false
(c) 1 and 2 are true
(d) 1 and 2 are false
51. Chukla Project feeds power to the north eastern parts of the country including West Bengal. Where is the Chukla Project?
(a) Bangladesh
(b) China
(c) Myanmar
(d) Bhutan

52. **Yalu river separates**
(a) N.Korea from S.Korea
(b) China from Korea
(c) Great Britain from Korea
(d) Russia from Korea
53. **1. Raga is the basis of rhythm and Tala is the basis of melody.**
2. The Ragas are classified according to the period of time in a day.
(a) Both 1 and 2 are true
(b) Only 1 is true
(c) Only 2 is true
(d) Neither 1 nor 2 is true
54. **Which of the following national park is famous for the Big Five namely the Rhinoceros, Tiger, Elephant, Asiatic Wild Buffalo and the Eastern Swamp Deer.?**
(a) Bandipur National Park
(b) Betla National Park
(c) Kaziranga National Park
(d) Rajaji National Park
55. **Consider the following statements.**
1. Nixon Doctrine had promised the US protection if any non-nuclear nation was threatened by a nuclear weapons state.
2. V. P. Singh withdrew Indian Peace Keeping Force (IPKF) in Srilanka.
(a) Both 1 and 2 are true
(b) Only 1 is true
(c) Only 2 is true
(d) Neither 1 nor 2 is true
56. **Fiscal deficit in the Union Budget means**
(a) The sum of budgetary deficit and net increase in internal and external borrowings
(b) Net increase in Union Governments, borrowings from the Reserve Bank of India
(c) The difference between current expenditure and current revenue
(d) The sum of monetised deficit and budgetary deficit.
57. **You must have read in financial newspapers/magazines frequently about "Share Swap" done by big corporates. What is the correct definition of "Share Swap"?.**
(a) A business takeover in which acquiring company uses its own stock to pay for the acquired company
(b) When companies are required to float a new issue to earn capital for their expansion programmes, each shareholder gets some additional preferential shares. The process of the allotment of preferential share is known as Share Swap.
(c) When a company uses its own shares to get some short term loan for working capital requirement, it is known as Share Swap
(d) None of these
58. **Any inclusion or exclusion of any caste or tribe from the list of Scheduled Castes and Scheduled Tribes can be done only by the**
(a) President
(b) Parliament
(c) President with the report from Governors of Respective States
(d) Parliament with the consent of State Legislative Assemblies concerned
59. **Identify the incorrect pair(s).**
1. HAMAS – Lebanon.
2. Hezbollah – Palestine.
(a) Both 1 and 2
(b) Only 1
(c) Only 2
(d) Neither 1 nor 2
60. **What is theoretical frame work that focuses on the level of economic development as the determinant of birth and death rates, referred to as?.**
(a) Theory of social capillarity
(b) Demography Transition Theory
(c) Optimum Theory of Population
(d) Malthusian Theory of Population

61. **Who were the signatories of Rush-Bagot Agreement (first disarmament agreement) which sought to demilitarize the Canadian American Frontier?**
 (a) Great Britain and the USA
 (b) Great Britain and the Russia
 (c) Great Britain and Canada
 (d) Great Britain and France
62. **Match the Following**
- | List 1 | List 2 |
|--------------|-----------------------------|
| A. Mons | 1. Bangladesh - Myanmar |
| B. Rohingyas | 2. Thailand -Myanmar |
| C. Shans | 3. Myanmar's Internal issue |
- (a) A - 3, B - 1, C - 2
 (b) A - 2, B - 1, C - 3
 (c) A - 1, B - 3, C - 2
 (d) A - 1, B - 2, C - 3
63. **'Ras' and 'Sankirtana' are popular forms of**
 (a) Odissi
 (b) Kuchipudi
 (c) Manipuri
 (d) Kathakali
64. **There are two basic designs adopted in refrigerators presently being manufactured in the country - Direct Cool (DC) and Frost Free (FF) refrigerators. Consider the following about them.**
 1. **Government is subsidizing frost free technology since Direct Cool technology cannot be used in industries.**
 2. **Direct cool refrigerators are highly energy inefficient and less eco-friendly than any standard FF refrigerator, leading to their phasing down.**
 (a) Only 1 is false
 (b) Only 2 is false
 (c) 1 and 2 are true
 (d) 1 and 2 are false
65. **Where is Mongla Port which is of significance to India's bilateral trade with its neighbors?**
 (a) Afghanistan
 (b) Pakistan
 (c) Bangladesh
 (d) Srilanka
66. **The Indian Air Force (IAF)'s purchase of Hawk Advanced Jet trainers (AJTs) is from**
 (a) UK
 (b) Japan
 (c) Russia
 (d) Israel
67. **Which of the following best describes "Theory of Demographic Transition"?**
 (a) Societies progress from a pre-modern regime of high fertility and high mortality to a post-modern regime of low fertility and low mortality.
 (b) There is no relationship between population change and industrial development
 (c) Both (a) and (b)
 (d) Neither (a) nor (b)
68. **The Security Printing and Minting Corporation of India Limited (SPMCIL), which manages Government of India Mints and Currency Presses among others is under the jurisdiction and administrative control of the**
 (a) Ministry of Corporate Affairs
 (b) Ministry of Trade & Commerce
 (c) Reserve Bank of India
 (d) Ministry of Finance
69. **Indian policy towards Nepal is determined by**
 1. **Geopolitics of Nepal makes it a landlocked country sandwiched between India and China.**
 2. **Nepal is the birth place of Gautam Buddha.**
 (a) Both 1 and 2 are true
 (b) Only 1 is true
 (c) Only 2 is true

- (d) Neither 1 nor 2 is true
70. **Identify the river.**
1. Longest river in Southeast Asia
2. The only river in all of Asia shared by six nations, namely China, Cambodia, Laos, Myanmar, Thailand and Vietnam.
(a) Mekong
(b) Salween
(c) Yangtze
(d) Yarlong
71. **Koh-I-Noor diamond was taken away from India to Persia during the rule of**
(a) Aurangzeb
(b) Muhammad Shah
(c) Farrukhsiyar
(d) Shah Alam
72. **Consider the following about Mekong-Ganga Cooperation (MCG).**
1. It does not include any nation that is either a member of ASEAN Summit or has a strategic partnership with China.
2. It only deals with power sharing and inland waterways transport across the rivers Mekong and Ganga.
(a) Only 1 is false
(b) Only 2 is false
(c) 1 and 2 are true
(d) 1 and 2 are false
73. **How does a capital market differ from a money market?.**
(a) Money market is related to short-term funds but the capital market related to long term funds.
(b) Money market is regulated by RBI; the capital market is regulated by SEBI.
(c) Both (a) and (b)
(d) Neither (a) nor (b)
74. **Kangleipak Communist Party is active in**
(a) Arunachal Pradesh
(b) Manipur
(c) Odisha
(d) Assam
75. **Codex Alimentarius Commission was established by**
(a) FAO
(b) WTO
(c) UNDP
(d) BRICS Bank
76. **1. Currency interventions consist of buying or selling domestic currency and/or foreign currency bonds in the global forex market.**
2. Most currency interventions are conducted to contain excessive appreciation of a domestic currency, which can hurt the manufacturing and export sectors.
(a) Only 1 is false
(b) Only 2 is false
(c) 1 and 2 are true
(d) 1 and 2 are false
77. **Litani River is a bone of contention between**
(a) Israel & Palestine
(b) Israel & Lebanon
(c) Israel & Syria
(d) Israel & Jordan
78. **Where is Rajin Port in which China is making investments as it gives it access to the Sea of Japan?.**
(a) North Korea
(b) Vietnam
(c) Japan
(d) China
79. **Who among the following had established the Vikramasila University that became an important seat of learning?**
(a) Dharmapala
(b) Dhanananda
(c) Ashvagoshya
(d) Devapala

80. Consider the following about Bharatnet.
1. It aims to connect all Gram Panchayats in the country with an optical fibre network.
2. The entire project is being funded by Universal service Obligation Fund (USOF).
Which of the above statements is/are true?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
81. Purbasha Island is a bone of contention between India and
(a) Bangladesh
(b) China
(c) Myanmar
(d) Bhutan
82. 1) The institution of gotra developed in Later Vedic Period.
2) "Vrihi" referred to Rice in Later Vedic Period.
(a) Both 1 and 2 are true
(b) Only 1 is true
(c) Only 2 is true
(d) Neither 1 nor 2 is true
83. What is "THUBBER" that was in news?
(a) It is material.
(b) It is an imaging technology.
(c) It is an electronic instrument.
(d) None of these
84. Point Pedro is in
(a) Russia
(b) China
(c) India
(d) Srilanka
85. Which of the following is/are true?
1. White phosphorus is an incendiary agent.
2. According to Chemical Weapons Convention (CWC) White phosphorus is a Chemical Weapon.
(a) Both 1 and 2 are true
(b) Only 1 is true
(c) Only 2 is true
(d) Neither 1 nor 2 is true
86. What is meant by "Casino banking"?
(a) It is the practice whereby a central bank of a country like RBI engages in unduly speculative or risky financial activities with the aim of achieving high profits.
(b) It is the practice whereby a commercial bank engages in unduly speculative or risky financial activities with the aim of achieving high profits.
(c) It is the practice whereby a commercial bank engages in hedge funds.
(d) It is the practice whereby a central bank of a country like RBI engages in hedge funds.
87. 1. Global Learning and Observations to Benefit the Environment (GLOBE) is a hand on international environmental science and education programme that brings students, teachers and scientists together to study the global environment.
2. DRDO is the nodal agency for GLOBE in India.
(a) Only 1 is false
(b) Only 2 is false
(c) 1 and 2 are true
(d) 1 and 2 are false
88. The SAARC Charter provides for the
1. Promotion of economic and social progress within the South Asia region.
2. Cultural development within the South Asia region.
3. Resolving Bilateral political disputes through negotiations and peace initiatives within the South Asia region.
(a) Only 1
(b) Only 2
(c) 1 & 2
(d) 1, 2 and 3

89. **The Golan Heights now occupied by Israel is originally a part of**
(a) Israel
(b) Lebanon
(c) Syria
(d) Jordan
90. **The technique of mural painting executed upon freshly laid lime plaster is known as**
(a) Fresco
(b) Madhuban
(c) Tempera
(d) Cubice
91. **Which of the following about the International Fund for Agricultural Development (IFAD) is/are true?.**
1. It was set up as a specialized agency of the United Nations (UN).
2. It is dedicated to eradicating poverty and hunger in rural areas of developing countries.
3. It provides low interest loans and grants to finance innovative agricultural projects.
(a) 1 and 2 only
(b) 2 and 3 only
(c) 3 only
(d) 1, 2 and 3
92. **Consider the following statements**
1. The five permanent members of the Security Council are the only countries recognized as nuclear-weapon States under the Nuclear Non-Proliferation Treaty.
2. The term of non-permanent members of the Council is 4 years.
(a) Only 2 is true
(b) Only 1 is true
(c) Both 1 and 2 are true
(d) Neither 1 nor 2 is true
93. **1. The essence of Truman Doctrine is that the USA has the right to intervene anywhere to check the spread of the Communism.**
2. **Marshall plan was put forward by USSR for the European recovery.**
Which of the statements given above is/are incorrect?.
(a) 1 & 2
(b) Only 2
(c) Only 1
(d) Neither 1 nor 2
94. **Consider the following statements about 'Fund of Funds for Startups'.**
1. It aims for contribution to various Alternative Investment Funds (AIF), registered with Securities and Exchange Board of India (SEBI) which would extend funding support to Startups.
2. It will be established at the Small Industries Development Bank of India.
3. It will be monitored by Department of Industrial Policy and Promotion.
Which of the statements given above is/are correct?.
(a) 1 and 2 only
(b) 2 and 3 only
(c) 3 only
(d) 1, 2 and 3
95. **USTTAD scheme aims at**
(a) Minorities Development
(b) Upgrading the Skills in Traditional Arts/Crafts
(c) Both (a) and (b)
(d) Neither (a) nor (b)
96. **Head of Economic Intelligence Council is**
(a) Prime Minister.
(b) Governor, Reserve Bank of India.
(c) Finance Minister.
(d) Chairman, SEBI.
97. **Principle of Prior Informed Consent is related to**
(a) Hazardous chemicals & pesticides in international trade.

Raja Sir's

- (b) Transfer of GM foods from one country to another.
(c) Nuclear trade between neighboring countries
(d) All the above

98. **Jataka story of the cat and the cock was depicted in**

- (a) Bharhut stupa
(b) Shanti Stupa
(c) Dhamekh Stupa
(d) Ramabhar Stupa

99. **Which one of the following statements is/are true?**

- (a) Bengal Florican, Great Indian Bustard, and Jerdon's Courser are vital to the health of grasslands.
(b) The survival of Spoon-billed Sandpiper, Siberian Crane and White-bellied Heron greatly depend on the existence of their wetland habitat.
(c) Both (a) & (b)
(d) Neither (a) nor (b)

Crackingias.com

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

9884554654

Raja Sir's

CRACKING
IAS ACADEMY
— Since 2005 — Feel the Pulse of UPSC...

GS MAINS 2017 Score Maximiser
Classes from June 25, 2017
NO CROWD.

ONLY 25 PER BATCH.

Only Institute in Chennai
Teaches Writing Skills & Equips you well

*GS 1 & 2
Sail thru GS Ocean

Early Bird
Offer

*GS 4 Ethics
None teaches better than us.

Till May 5
SAVE 5000

*GS 3
Redefining Economics & Science

FREE ESSAY
PROGRAMME

*Essay Enrichment
Real Time Essay Expert

Quality Study Materials
No Bookish Teaching

CALL/SMS/ Whats App Your Name to : 98845 54654

2nd Floor. New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY

100. Euphrates River is a bone of contention between

- (a) Turkey and Syria
- (b) Jordan and Syria
- (c) Israel & Syria
- (d) Israel & Jordan

RajasirIAS.com

1. **UDAN would be achieved through**
 - (a) Financial Stimulus
 - (b) Viability Gap Funding
 - (c) Neither (a) nor (b)
 - (d) Both (a) & (b)

2. **Chicago convention is related to**
 - (a) Civil Aviation.
 - (b) Protection of Dugongs.
 - (c) Pollution due to oil spills.
 - (d) Bio-fuels

3. **The theoretical and political basis for the change in communist politics in India was laid in early 1936 by a document popularly known as**
 - (a) Gandhi .vs. Lenin
 - (b) Dun-Bradley Thesis
 - (c) In-comintern
 - (d) Mc Duverger Thesis

4. **Which of the below statements is/are correct about Participatory Notes?.**
 1. Participatory Notes are issued by RBI to overseas investors to invest in the Indian stock market.
 2. Any entity investing in participatory notes is not required to register with SEBI.
 - (a) Only 1
 - (b) 1 & 2
 - (c) Only 2
 - (d) Neither 1 Nor 2

5. **Which is/are the constitutionally mandated bodies under the 74th Constitutional Amendment Act, 1992?.**
 1. State Finance Commission
 2. State Election Commission
 3. District Planning Committee
 4. District Rural Development Agency
 - (a) 1, 2 and 3 only
 - (b) 1 and 2 only
 - (c) 1, 3 and 4 only
 - (d) 1, 2 and 4 only

6. **Which of the following is/are correct statement (s)?.**
 - (a) Speaker, Lok Sabha is the President of all the Parliamentary Forums.
 - (b) Each Parliamentary Forum consists of 31 Members (excluding the President and the ex-officio Vice-Presidents) out of whom not more than 21 are from Lok Sabha and not more than 10 are from Rajya Sabha.
 - (c) Both (a) & (b) are correct.
 - (d) Neither (a) nor (b) is correct

7. **NASA's Cassini Spacecraft has discovered steep-sided canyons in**
 - (a) Titan
 - (b) Ganymede
 - (c) Io
 - (d) Alpha Centuari

8. **Consider the following statements:**
 - (1) Jarvis is a home AI system built by Mark Zuckerberg.
 - (2) Jarvis can be controlled via an app, Messenger bot, and voice.

Which of the above statements is/are true?

 - (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

9. **Which of the following is/are true about deadly Sarin gas used in Syria recently?.**
 1. It contains phosphorus.
 2. It was first produced massively during World War II by Nazi Germany.
 - (a) 1 and 2 are correct
 - (b) Only 1 is correct
 - (c) Only 2 is correct
 - (d) None is correct

10. **Which of the following is/are true w.r.t. Public Accounts Committee ?.**
 1. It is formed every 5 years.
 2. CAG assists the committee during the course of investigation.
 3. A Minister is not eligible to be elected as a member of the Committee.
 4. The Chairman is appointed by the Prime Minister with the recommendation of the Speaker.
 - (a) 1 and 2 only
 - (b) 2 only
 - (c) 2 and 3 only
 - (d) 1, 2, 3 and 4

11. You must have read in financial newspapers/magazines frequently about "Share Swap" done by big corporates. What is the correct definition of "Share Swap"?
- A business takeover in which acquiring company uses its own stock to pay for the acquired company
 - When companies are required to float a new issue to earn capital for their expansion programmes, each shareholder gets some additional preferential shares. The process of the allotment of preferential share is known as Share Swap.
 - When a company uses its own shares to get some short term loan for working capital requirement, it is known as Share Swap
 - None of these
12. SPIC MACAY is
- a voluntary youth movement to showcase the culture of India, to the masses, especially to the younger generations.
 - It is a Berlin based tourist body which promotes tourism in Asia Pacific.
 - It is a Global initiative created to spread awareness about throat cancer.
 - a non-profit organization which works to promote legal awareness, based in Bangalore.
13. "Department of External Investments and Operations" falls within the ambit of which of the following?
- Reserve Bank of India
 - Ministry of External Affairs
 - Ministry of Commerce & Industry
 - Ministry of Finance
14. What is theoretical frame work that focuses on the level of economic development as the determinant of birth and death rates, referred to as?
- Theory of social capillarity
 - Demography Transition Theory
 - Optimum Theory of Population
 - Malthusian Theory of Population
15. Saksham Scheme is for
- Adolescent Boys
 - Adolescent Girls
 - Destitute Women
 - Orphaned Children
16. Which of the following is/are true about "Army Design Bureau"?
- Army Design Bureau is a part of 'Make in India' programme.
 - It will replace DRDO after 10 years.
- 1 and 2 are correct
 - Only 1 is correct
 - Only 2 is correct
 - None is correct
17. "Breakdown Plan" in Indian History refers to
- Rajaji formula
 - Wavell Plan
 - Cabinet Mission Plan
 - Cripps Proposals
18. India is a member of
- COMESA
 - ASEAN Plus Three
 - Asia-Pacific Economic Cooperation
- 1 and 2 only
 - 2 only
 - 2 and 3 only
 - None of these
19. Where is Rajin Port in which China is making investments as it gives it access to the Sea of Japan?
- North Korea
 - Vietnam
 - Japan
 - China
20. The Egmont Group is related to
- Financial Intelligence
 - Refugee Resettlement
 - Sharing of international rivers
 - Energy security
21. 'Jan Shikshan Sansthan' are established to
- provide vocational training to school drop outs.
 - focus on education of women, SCs and STs.
 - focus on adult education.
- 1 only
 - 3 only
 - 2 only
 - None of the above

22. **The Financial Stability Board (FSB) includes all**
 (a) G-20 major economies
 (b) G-20 major economies and the European Commission
 (c) G-20 major economies, G7 countries, and the European Commission.
 (d) G-20 major economies and the G7 countries.
23. **Delimitation Commission consists of**
 (a) Chief Election Commissioner of India and two judges of Supreme Court.
 (b) Chief Election Commissioner of India and two judges of Supreme Court or any of the High Courts in India.
 (c) Chief Election Commissioner of India and three judges of Supreme Court or any of the High Courts in India.
 (d) Chief Election Commissioner of India and three judges of Supreme Court.
24. **Gender Inequality Index (GII), developed by UNDP measures the human development costs of gender inequality. Which of the following forms a part of GII? 1. Life expectancy 2. Reproductive health 3. Empowerment 4. Control over economic resource 5. Labour market participation**
 (a) 1, 2 and 4 only
 (b) 3, 4 and 5 only
 (c) 2, 3 and 5 only
 (d) 1, 2 and 4 only
25. **The Indian Air Force (IAF)'s purchase of Hawk Advanced Jet trainers (AJTs) is from**
 (a) UK
 (b) Japan
 (c) Russia
 (d) Israel
26. **Global Gender Gap Index is released by**
 (a) WB
 (b) UNDP
 (c) UN WOMEN
 (d) WEF
27. **Consider the following about Mekong-Ganga Cooperation (MCG).**
 1. It does not include any nation that is either a member of ASEAN Summit or has a strategic partnership with China.
 2. It only deals with power sharing and inland waterways transport across the rivers Mekong and Ganga.
 (a) Only 1 is false
 (b) Only 2 is false
 (c) 1 and 2 are true
 (d) 1 and 2 are false
28. **Who can purchase Treasury Bills?.**
 1. Individuals.
 2. Trusts.
 3. Corporate bodies.
 (a) 1, 2, 3
 (b) 1 & 2
 (c) 2 & 3
 (d) None of these
29. **FC-31 Gyrfalcon was developed by**
 (a) China
 (b) Pakistan
 (c) Russia
 (d) Iran
30. **Who were the signatories of Rush-Bagot Agreement (first disarmament agreement) which sought to demilitarize the Canadian American Frontier?**
 (a) Great Britain and the USA
 (b) Great Britain and the Russia
 (c) Great Britain and Canada
 (d) Great Britain and France
31. **The World's Women report is released**
 (a) UN Women
 (b) Jointly by ILO & WHO
 (c) World Bank
 (d) None of these
32. **The technique of mural painting executed upon freshly laid lime plaster is known as**
 (a) Fresco
 (b) Madhuban
 (c) Tempera
 (d) Cubice
33. **Crooke's glass that cuts harmful ultra violet rays that are harmful to eyes contains**

- (a) Cerium Oxide
(b) Magnesium Oxide
(c) Aluminum Oxide
(d) Titanium di Oxide
34. **“Cas9” in CRISPR–Cas9 technique refers to**
(a) a vector.
(b) an enzyme
(c) a plasmid
(d) an hormone
35. **The first International Arbitration Centre of India was inaugurated in**
(a) Delhi
(b) Chennai
(c) Mumbai
(d) Lucknow
36. **Which of the following is/are correct statement (s) w.r.t. Special Leave Petitions in India?.**
(a) They are a "residual power" in the hands of Supreme Court.
(b) The aggrieved party cannot claim special leave to appeal under Article 136 as a right.
(c) Both (a) & (b) are correct
(d) **Neither (a) nor (b) is correct**
37. **With reference to the recently developed India's first indigenous Rotavac vaccine, consider the following statements:**
1. It is developed to combat diarrhoeal deaths.
2. It is developed by Bharat Biotech ltd. in collaboration with CSIR's Central Drug Research Institute.
3. It is administered sub-cutaneously as well as orally.
Which of the statements given above is/are correct?.
(a) 1 & 2 only
(b) 2 only
(c) 3 only
(d) None of the above
38. **ISRO's AVATAR is a**
(a) unmanned mission to study Sun
(b) manned single-stage reusable space-plane
(c) unmanned single-stage reusable space-plane
(d) one-manned mission to study Sun
39. **Which of the following is/are true w.r.t India's Nuclear Doctrine?.**
(a) Radiological weapons is excluded from the nuclear doctrine.
(b) The key to the deterrence logic is that all players in the nuclear game abide by its rationality and act accordingly.
(c) Both (a) and (b)
(d) Neither (a) nor (b)
40. **Which of the following is/are true ?.**
1. UN Human Rights Council is 47-member body in based in Geneva.
2. The council doesn't have the authority to take action.
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
41. **Which of the following is/are true about “Internet of Things”?.**
1. IoT has evolved from the convergence of wireless technologies, micro-electromechanical systems, microservices and the internet.
2. A connected car is an IoT.
(a) 1 and 2 are correct
(b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
42. **Match List I with List II**
- | List I | List II |
|--------------------------|---------------------|
| Lingaraja Temple | 1. Chandellas |
| Konark Sun temple | 2. Narshimha Deva I |
| Kandariya Mahadev temple | 3. Ganga rulers |
- (a) 3 - 2 - 1
(b) 2 - 3 - 1
(c) 1 - 2 - 3
(d) 3 - 1 - 2
43. **Twin Balance Sheet Syndrome is due to**
1. Surge in borrowing
2. Ever-greening of loans
3. Stringent regulation
4. Lack of infrastructure
(a) 1 and 2 only

- (b) 1, 3 and 4 only
 (c) 1, 2 and 3 only
 (d) 1, 2, 3 and 4

44. Match the Following

List 1

- A. Mons
 B. Rohingyas
 C. Shans

List 2

1. Bangladesh - Myanmar
 2. Thailand - Myanmar
 3. Myanmar's Internal issue

- (a) A - 3, B - 1, C - 2
 (b) A - 2, B - 1, C - 3
 (c) A - 1, B - 3, C - 2
 (d) A - 1, B - 2, C - 3

45. What is/are true about Comets?

1. Comets do not have Rings and Moons.
 2. Comets come from the Oort Cloud and the Kuiper Belt.

- (a) 1 and 2 are true.
 (b) Only 1 is true.
 (c) Only 2 is true.
 (d) Neither 1 nor 2 is true.

46. Head of Economic Intelligence Council is

- (a) Prime Minister.
 (b) Governor, Reserve Bank of India.
 (c) Finance Minister.
 (d) Chairman, SEBI.

47. Identify the incorrect pair(s).

1. HAMAS – Lebanon.
 2. Hezbollah – Palestine.

- (a) Both 1 and 2
 (b) Only 1
 (c) Only 2
 (d) Neither 1 nor 2

48. "Planet 50-50" that was in news in recent times is related to

- (a) Climate Change
 (b) Gender Equity
 (c) Global Dimming
 (d) Old age welfare

49. Which of the following is/are true?.

1. White phosphorus is an incendiary agent.
 2. According to Chemical Weapons Convention (CWC) White phosphorus is a Chemical Weapon.

- (a) Both 1 and 2 are true
 (b) Only 1 is true
 (c) Only 2 is true
 (d) Neither 1 nor 2 is true

50. The red colour in the sky at sunset (and sunrise) is due to

- (a) reddish-orange light is most scattered by the atmosphere.
 (b) reddish-orange light is least scattered by the atmosphere.
 (c) during that time sun emits only reddish-orange light.
 (d) during that time sun absorbs only reddish-orange light.

51. Identify the correct statement (s)

- (a) Prime Minister's resignation involves the resignation of all the Ministers.
 (b) The President is bound to accept the decision taken by the Cabinet.
 (c) Both (a) & (b) are correct.
 (d) Neither (a) nor (b) is correct

52. Consider the following statements about the Minimum Support Price (MSP) offered to farmers by the government:

1. It is offered for food crops only.
 2. Its purpose is to control inflation by regulating the prices of agricultural products.
 3. The MSP is announced by the Government of India at the end of the sowing season for certain crops on the basis of the recommendations of the Commission for Agricultural Costs and Prices (CACP).

Which of the statements given above is/are incorrect?.

- (a) 1 only
 (b) 1 and 2 only
 (c) 2 and 3 only
 (d) 1, 2 and 3

53. Mount Halti is between

- (a) Norway and Finland
 (b) Norway and Sweden
 (c) Finland and Sweden
 (d) Finland and Russia

54. These are finest examples of Vesara style
1. Virupaksha temple of Pattadakal
 2. Hoysala temples at Belur
 3. Papanatha temple of Pattadakal
- (a) 1, 2 & 3
 (b) Only 1 & 2
 (c) Only 2 & 3
 (d) None of these
55. Which of the following statements is/are true?.
1. Archaeological Survey of India (ASI) is the world's biggest state-run archaeology.
 2. Archaeological Survey of India (ASI) was established during the viceroyalty of Lord Canning.
- (a) Only 2
 (b) Only 1
 (c) Both 1 and 2
 (d) Neither 1 nor 2
56. Any inclusion or exclusion of any caste or tribe from the list of Scheduled Castes and Scheduled Tribes can be done only by the
- (a) President
 (b) Parliament
 (c) President with the report from Governors of Respective States
 (d) Parliament with the consent of State Legislative Assemblies concerned
57. New Swarnima Special Scheme is meant for
- (a) OBC Women
 (b) Adolescent Girls
 (c) Destitute Women
 (d) Orphaned Children
58. "24x7 PFA" is related to
- (a) PIB News Channel
 (b) PTI News Channel
 (c) NAM News Channel
 (d) None of these
59. Which of the following statements is/are correct about Nobel Prize?
1. Nobel Prize in Physiology or Medicine was established later.
 2. Prize may not be shared among more than three people.
- (a) Only 1
 (b) Only 2
 (c) 1 & 2
 (d) Neither 1 Nor 2
60. Consider the following statements with respect to the legislative powers of the Governor of a State:
1. The Governor can summon, prorogue and dissolve the State Assembly.
 2. The Governor can adjourn the sittings of the State Assembly.
 3. The Governor addresses the first session of the Legislative Assembly after elections.
 4. The Governor causes to lay the annual budget in the State Assembly.
- Which of the statements given above are correct?
- (a) 1 and 2
 (b) 1 and 3
 (c) 2 and 3
 (d) 2 and 4
61. 1. Clouded leopard
 2. Cheetah
 3. Black-necked crane
 4. Pangolin
- Which of the above is/are not naturally found in India?.
- (a) 1, 2 and 3 only
 (b) 1, 3 and 4 only
 (c) 2 only
 (d) 1, 2, 3 and 4
62. Gandhi formed the Passive Resistance Association
- (a) As a protest against the internment of Mrs. Besant and her co-workers.
 (b) As a protest against the Jalianwala Bagh tragedy.
 (c) As a protest against the Rowlatt Act.
 (d) To conduct the campaign of Civil Resistance in South Africa.
63. Consider the following statements.
1. Endosulfan is a chlorinated hydrocarbon insecticide.
 2. Endosulfan causes DNA damage in the form of breaks in DNA strands.
- Which of the statements given above is/are correct?
- (a) 1 and 2 are correct

- (b) Only 1 is correct
(c) Only 2 is correct
(d) None is correct
64. **Kangra school of painting is associated with**
 1. Miniature paintings inspired from Vaishnavite traditions.
 2. Migration of Mughal artists to the hills from the plains following Nadir Shah's invasion.
 Which of the above is/are incorrect?
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
65. **Which of the following are correct about federalism?**
 1. It implies protection and co-determination.
 2. It provides for additional controls of government, bureaucracy and parliament.
 3. It makes the process of government a continuing task of adjustment and coordination of competing interests.
 4. It ensures uniformity of law and administration.
 Select the correct answer using the code given below:
 (a) 1,2,3 and 4
 (b) 1, 2 and 3
 (c) 2 and 4
 (d) 1, 3 and 4
66. **Hangzhou Consensus is related to**
 (a) G20
 (b) BRICS
 (c) SCO
 (d) NAM
67. **A graded response action plan has been notified by the union environment ministry to deal with**
 (a) Tiger Conservation
 (b) Noise Pollution
 (c) Air Pollution
 (d) Mangroves Protection
68. **The first Indian state to have its Human Development Report prepared and released by Amartya Kumar Sen in Delhi is**
 (a) West Bengal
 (b) Kerala
 (c) Madhya Pradesh
 (d) Andhra Pradesh
69. **The International ARGO Project studies**
 (a) Soil
 (b) Atmospheric air
 (c) Oceans
 (d) Clouds
70. **What is/are true about "F-gases" that are frequently in news?**
 (a) They are powerful greenhouse gases.
 (b) They are not included in the basket of gases controlled by the Kyoto Protocol, as they occur naturally in the atmosphere.
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
71. **Consider the following.**
 1. Judge of Supreme Court & Solicitor General.
 2. Solicitor General & Attorney General of India.
 3. Judge of Supreme Court & Attorney General of India.
 Which of these combinations have similar qualifications?
 (a) 1
 (b) 2
 (c) 3
 (d) None of these
72. **Who is the Inventor of Excimer LASER used for LASIK eye Surgery?**
 (a) Shiv Akron
 (b) Both (c) and (d) below
 (c) Samuel Morse
 (d) Dr Rangaswamy Srinivasan
73. **The Sixth Schedule to the Constitution of India makes special administrative provisions in regard to the tribal areas in**
 (a) Assam, Meghalaya, Tripura and Mizoram
 (b) Meghalaya, Assam, Nagaland and Manipur
 (c) Tripura, Manipur, Mizoram and Meghalaya
 (d) Arunachal Pradesh, Nagaland, Assam and Tripura
74. **'Mission 4IK' is related to**
 (a) IT Sector
 (b) Missiles

- (c) Black Money
(d) Energy Conservation
75. **Leigh syndrome is caused by**
 (a) Mutation in Mitochondria
 (b) Alteration in 21st Chromosome
 (c) Tannery effluent contaminated water
 (d) Asbestos pollution
76. **Fiscal deficit in the Union Budget means**
 (a) The sum of budgetary deficit and net increase in internal and external borrowings
 (b) Net increase in Union Governments, borrowings from the Reserve Bank of India
 (c) The difference between current expenditure and current revenue
 (d) The sum of monetised deficit and budgetary deficit.
77. **'Wall of Wishes' was inaugurated to celebrate**
 (a) Corruption free government
 (b) Women in Politics
 (c) Olympic Mood
 (d) Child Labour free India
78. **Pro-bond market is**
 (a) USA based
 (b) Japanese based
 (c) Singapore based
 (d) Sweden based
79. **Who among the following has given the "Capability Approach" to development?.**
 (a) Amartya Sen
 (b) John Rawls
 (c) Robert Nozick
 (d) None of these
80. **Which of the following is/are not true ?**
 (a) The names of protected species of animals, birds and plants have been mentioned at Schedule II of Wild Life (Protection) Act, 1972.
 (b) Botanical Survey of India (BSI) has pursued ex-situ conservation in its and associated botanic gardens.
 (c) Both (a) & (b)
 (d) Neither (a) nor (b)
81. **Fly-Ash used to fill mines is being criticized because**
 1) No support for tree species in such places
 2) Contamination of ground water
 3) Toxic fumes cause respiratory diseases
 (a) 1 and 3 only
 (b) 1 and 2 only
 (c) 1, 2 and 3
 (d) 2 and 3 only
82. **Which of the following is the correct order of decreasing wavelength?.**
 (a) Radio wave, Microwave, Infrared rays, UV rays,
 (b) UV rays, Radio wave, Microwave, Infrared rays
 (c) Microwave, Infrared rays, UV rays, Radio wave
 (d) Infrared rays, UV rays, Radio wave, Microwave
83. **Refineries operating in India under Private sector are**
 1. Reliance Industries Limited
 2. Essar Oil Limited
 3. Numaligarh Refinery Limited
 (a) Only 1
 (b) Only 1 & 3
 (c) 1 and 2
 (d) 1, 2 & 3
84. **'Ras' and 'Sankirtana' are popular forms of**
 (a) Odissi
 (b) Kuchipudi
 (c) Manipuri
 (d) Kathakali
85. **With reference to 'Natural Rate of Unemployment', consider the following statements :-**
 1. It is the level of unemployment in an economy that is just consistent with a stable rate of Inflation.
 2. It is the unemployment that prevails when all markets in the economy are in equilibrium.
 (a) 1 & 2
 (b) 2 only
 (c) 1 only
 (d) None of the above
86. **Correct statements w.r.t. DMH 11 - Genetically Modified Mustard is/are**
 (1) It was an Indian government sponsored

- project.
 (2) This project was in association with Monsanto.
 (3) It was developed by IARI, Pusa.
 (a) Only 2 & 3
 (b) Only 3
 (c) 1, 2 & 3
 (d) Only 1
87. What is the objective of Euclid mission?
 (a) To study Black Hole
 (b) To study Asteroids
 (c) To study dark matter
 (d) To study extra terrestrial life
88. A current account deficit means
 1. low level of national savings
 2. foreign savings that promote growth through higher investment
 3. a negative net sales abroad.
 (a) 1 and 2
 (b) 1 and 3
 (c) 2 and 3
 (d) 1, 2 and 3
89. Which of the following statements is/are FALSE?
 1. Helium is widely used in medical scanners and exotic machines such as the Large Hadron Collider.
 2. Helium is the second-most abundant element in the universe.
 (a) Only 1
 (b) Only 2
 (c) Both 1 and 2
 (d) Neither 1 nor 2
90. Consider the following statements.
 1. Nixon Doctrine had promised the US protection if any non-nuclear nation was threatened by a nuclear weapons state.
 2. V. P. Singh withdrew Indian Peace Keeping Force (IPKF) in Srilanka.
 (a) Both 1 and 2 are true
 (b) Only 1 is true
 (c) Only 2 is true
 (d) Neither 1 nor 2 is true
91. Who among the following are provided with immunity under Article 361?
 (a) President, Governor
 (b) President, Governor, Prime Minister
 (c) President, Governor, Prime Minister, Chief Minister, Comptroller and Auditor General
 (d) President, Governor, Prime Minister, Chief Minister
92. Which of the following brings out an annual publication "Energy Statistics" incorporating data on reserves, installed capacity, potential for generation, production, consumption, import, export and wholesale price of different energy commodities?
 (a) Ministry of Energy and Power Resources
 (b) Central Statistics Office
 (c) National Sample Survey Organization
 (d) Ministry of Petroleum and Coal
93. Which of the following made English the official and literary language of India?
 (a) Macaulay Report
 (b) Government Resolution in 1835
 (c) Woods Despatch
 (d) Bentinck Resolution in 1828
94. Which of the following is/are true regarding Yaad karo Azadi?
 (a) It will kick start on the anniversary of chander shekhar Azad at his birth place in Alirajpur in Madhya Pradesh.
 (b) The Yaad Karo Kurbanī 2016 aimed to commemorate 75th anniversary of the Quit India Movement and 70 years of Independence.
 (c) Neither (a) nor (b)
 (d) Both (a) & (b)
95. Which of the following is/are true about Kala Azar?
 1. There is only one sandfly vector of Kala-azar in India Phlebotomus aregintipes.
 2. It is endemic in eastern States of India namely Bihar, Jharkhand, Uttar Pradesh and West Bengal.
 (a) 1 and 2 are correct
 (b) Only 1 is correct
 (c) Only 2 is correct

(d) None is correct

96. Which of these is/are true?.

1. The bulk of Brazil is well fit with Gulf of Guinea.
2. East coast of South America can be fitted with West coast of Africa.
3. Himalaya was formed due to folding in sediments of Tethys sea.

- (a) 1 & 2
- (b) 1, 2 & 3
- (c) Only 2
- (d) 2 & 3

97. Public Debt Management Cell has been set up by

- (a) RBI
- (b) Finance Ministry
- (c) PMO
- (d) Jointly by (a) & (b)

98. The Large Hadron Collider is concerned with

- (a) Proton - Neutron Collision
- (b) Proton - Electron Collision
- (c) Proton - Proton Collision
- (d) Neutron - Neutron Collision

99. English is the official language of which of the following states?

- (a) Manipur
- (b) Nagaland
- (c) Karnataka
- (d) Andhra Pradesh

100. Match the Following

- | List 1 | List 2 |
|----------------------|---------------------|
| A. Ex Lamitye | 1. India-UAE |
| B. Garuda Shakti | 2. ASEAN Plus |
| C. Exercise Force 18 | 3. Indo - Indonesia |
| D. Desert Eagle | 4. Indo-Seychelles |

- (a) A - 4, B - 3, C - 2, D - 1
- (b) A - 4, B - 2, C - 3, D - 1
- (c) A - 4, B - 3, C - 1, D - 2
- (d) A - 4, B - 2, C - 1, D - 3

Crackingias.com

9884554654

Raja Sir's


CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...
SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

GS MAINS 2017 Score Maximiser
Classes from June 25, 2017
NO CROWD.

ONLY 25 PER BATCH.

Only Institute in Chennai
Teaches Writing Skills & Equips you well

*GS 1 & 2

Sail thru GS Ocean

Early Bird
Offer

*GS 4 Ethics

None teaches better than us.

Till May 5
SAVE 5000

*GS 3

Redefining Economics & Science

FREE ESSAY
PROGRAMME

*Essay Enrichment

Real Time Essay Expert

Quality Study Materials

No Bookish Teaching

CALL/SMS/ Whats App Yout Name to : 98845 54654

2nd Floor. New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY

ANSWERS

1. C	11. A	21. C	31. A	41. D	51. A	61. D	71. C	81. C	91. A
2. A	12. C	22. A	32. C	42. A	52. A	62. A	72. D	82. D	92. D
3. B	13. A	23. C	33. D	43. B	53. C	63. D	73. D	83. D	93. B
4. A	14. A	24. A	34. C	44. A	54. A	64. A	74. C	84. C	94. C
5. D	15. C	25. A	35. B	45. A	55. C	65. C	75. C	85. B	95. A
6. D	16. A	26. C	36. C	46. C	56. B	66. A	76. A	86. B	96. C
7. D	17. D	27. B	37. B	47. C	57. C	67. D	77. C	87. B	97. D
8. A	18. B	28. C	38. D	48. A	58. D	68. D	78. B	88. C	98. B
9. C	19. A	29. C	39. C	49. A	59. B	69. A	79. C	89. A	99. D
10. D	20. B	30. C	40. D	50. D	60. C	70. D	80. A	90. D	100. B

Explanations

1.	The great Brahmaputra, originating from the eastern part of the lake Manasarovar in the Kailasa flows eastward through the plateau of Tibet under the name of Tsangpo. Then it turns south and enters in India where it assumes the name Dihang. Later, the rivers Dihang and Lohit join and are called Brahmaputra or Lohitya. Passing through Assam and Bengal it joins the eastern most mouth of the Ganga~ i.e., Padma.	6.	heritage. Some Vindhyan rivers like the Chambal, the Betwa and the Ken join the Yamuna before its confluence with the Ganga at Allahabad. Another great Vindhyan river, the Son, joins the Ganga near Patna in Bihar. From the Himalayas side, rivers like the Gomati, the Sarayu, the Gandak and the Kosi join the Ganga in the states of Uttar Pradesh and Bihar. There are several mouths through which the Ganga falls into the Bay Of Bengal. The main stream is called Bhagirathi or Hooghli on which are situated the towns of Murshidabad, Hooghly and Kolkata. The eastern most mouth of the Ganga is called the Padma.
2.	<ul style="list-style-type: none"> ➤ Buddhism does not recognize the existence of god and soul (atman). This can be taken as a kind of revolution in the history of Indian religions. It particularly won the support of the lower orders as it attacked the varna system. People were taken into the Buddhist order without any consideration of caste. Women also were admitted to the sangha and thus brought on par with men. In comparison with Brahmanism, Buddhism was liberal and democratic. ➤ The use of Pali, the language of the people, also contributed to the spread of Buddhism. It facilitated the spread of Buddhist doctrines among the common people. Gautama Buddha also organized the sangha or the religious order, whose doors were kept open to everybody, irrespective of caste and sex. The only condition required of the monks was that they would faithfully observe the rules and regulations of the sangha. Once they were enrolled as members of the Buddhist Church they had to take the vow of continence, poverty and faith. So there are three main elements in Buddhism: Buddha, sangha and dhamma. The monarchies of Magadha, Koshala and Kaushambi and several republican states and their people adopted this religion. 	7.	The Prayaga Prashasti (also known as the Allahabad Pillar Inscription) composed in Sanskrit by Harishena, the court poet of Samudragupta.
4.	Khangchendzonga National Park, Sikkim has been inscribed as India's first Mixed World Heritage Site on UNESCO World Heritage List by fulfilling the nomination criteria under both national and cultural	10.	Central Zoo Authority (CZA) has asked Madhya Pradesh forest department to stop tiger safari in the state's Pench National Park citing alleged violation of wildlife norms. Pench national Park is famous as home to 'Mowgli'-- the protagonist of Rudyard Kipling's 'The Jungle Book'.
		12.	The best-known of the rulers who controlled the Silk Route were the Kushanas, who ruled over central Asia and north-west India around 2000 years ago. Their two major centres of power were Peshawar and Mathura. Taxila was also included in their kingdom. During their rule, a branch of the Silk Route extended from Central Asia down to the seaports at the mouth of the river Indus, from where silk was shipped westwards to the Roman Empire. The Kushanas were amongst the earliest rulers of the subcontinent to issue gold coins. These were used by traders along the Silk Route.
		13.	Russia on June 16 2016 launched the new Project 22220 nuclear icebreaker dubbed Arktika launched from the Baltic Shipyard in St. Petersburg which is the second largest city of Russia. Project 22220 is the world's biggest and most powerful vessel of this kind.

16.	Uranium-233 is obtained by irradiation of thorium. Plutonium is produced by irradiation of uranium-238.	29.	Prakrit word for beggar) and bhikkhunīs.
17.	Yasmin Sooka, the South African Indian origin lawyer and longtime human rights activist was appointed to chair the UN commission on 24 th June 2016. Commission will monitor human rights situation in Southern Sudan and ensure recommendations for their improvement.	30.	The first definite mention of Bharata as a region is to be found in Panini who lived about sixth century B.C. It is only one out of 22 janapadas specified from Kamboja to Magadha, all in Northern India. Buddhist literature subsequently speaks of seven Bharata regions (Sapta-Bharatas) corresponding to the ancient Sapta-Sindhu. Arya-desa and Brahmarashtira were other names of India mentioned by I-tsing. Aryavarta was also another ancient name given at the time of Patanjali (150 B.C.) to the northern part of India lying between the Himalayas and the Pariyatraka or the western part of the Vindhya.
19.	Megasthenes had little understanding of Indian society and social systems, For example, he mentions that Indian society comprises of seven castes). ➤ In his book Hindu Polity, published in 1924, Jayaswal effectively knocked down the myth that Indians had no political ideas and institutions.	31.	Magadha (in present-day Bihar) became the most powerful mahajanapada. Rajagaha (the Prakrit name for present day Rajgir) was the capital of Magadha.
21.	The Cold Desert biosphere reserves of India include in itself Pin Valley National Park and surroundings Chandratal and Sarchu & Kibber Wildlife Sanctuary in Himachal Pradesh. It is located in the lap of the Ladakh in Himalayas.	32.	Of India's entire Obvious Geological Potential (OGP) area, identified by GSI, only 10 per cent has been explored and mining is undertaken in 1.5-2 per cent of this area.
22.	➤ Banabhatta's Harshacharita throws light on many historical facts about which we could not have known otherwise.	33.	India is blessed with abundant mineral deposits and the country's mining sector forms an important segment of the economy contributing around 2.6% to the country's GVA. India produces 90 different types of minerals (fuel, atomic, metallic and non-metallic minerals). India is also the third largest coal producer, third largest steel producer, fourth largest Iron-ore producer globally and has the fifth largest Bauxite reserves in the world. With barely 20% of reserves mined, India presents a major opportunity for investors.
23.	It functions through a number of intermediaries such as banks, merchant bankers, brokers, underwriters, mutual funds etc. They serve as links between investors and borrowers.	34.	Non-coking coal (usually referred to as thermal coal) cannot form cake when heated in absence of air; whereas, when coking coal is heated in absence of air (carbonization) the constituents start fusing and form a large chunky mass, known as coke. The coking coal is also referred to as Metallurgical Coal, because it's mainly used in metal extraction (i.e. Iron Making). Due to low ash content, it is majorly used in blast furnaces as a fuel.
24.	<ul style="list-style-type: none"> Wheat Blast is an agricultural disease that can cause more than 75 per cent yield loss in affected fields, rendering the region non-cultivable for years. It is caused by the 'Magnaporthe oryzae' fungus, which also causes Rice Blast. It thrives in hot and humid climates. The government has taken the development seriously and might consider directing eastern states of West Bengal and Assam to stop farmers from cultivating wheat in border areas, if Bangladesh fails to contain the disease. The government might even ban import of wheat from Bangladesh. 	35.	Other finds include pottery from the Mediterranean region, such as amphorae (tall double-handled jars that contained liquids such as wine or oil) and stamped red-glazed pottery, known as Arretine Ware, which was named after a city in Italy.
25.	Uralkali is the world's largest potash producer. India has signed a deal.	36.	Nitrogen, oxygen and argon are called the "constant gases" because their concentration has remained virtually the same for much of recent earth history.
27.	Men and women who joined the sangha led simple lives. They meditated for most of the time, and went to cities and villages to beg for food during fixed hours. That is why they were known as bhikkhus (the		

<p>40. The most famous Kushana ruler was Kanishka, who ruled around 1900 years ago. He organised a Buddhist council, where scholars met and discussed important matters. Ashvaghosha, a poet who composed a biography of the Buddha, the Buddhacharita, lived in his court.</p>	<p>48. India is the first country under the 2012 WHO neglected tropical disease roadmap to eliminate yaws.</p>
<p>41. > The circuit boards in cell phones contain myriad toxins such as arsenic, antimony, beryllium, cadmium, copper, lead, nickel, and zinc. > Brominated flame retardants are found in the plastic case, printed wiring board, and cables. > The lithium-ion and nickel-metal hydride batteries contain heavy metals such as cobalt, zinc, and copper. > Many of these chemicals are Persistent Bioaccumulative Toxins (PBTs) and have the potential to be released into the air and groundwater when burned in incinerators or disposed of in landfills, thus creating unnecessary threats to human health and the environment.</p>	<p>49. The Bramble Cay melomys was found only on a tiny Great Barrier Reef Island. This meal is also known as the Australian Great Barrier Reef rodent or Bramble Cay Mosaic tailed rat. It is a species of the rodent in family Muridae and Australia's most isolated mammal.</p>
<p>42. ✓ The largest reservoir of Earth's oxygen is within the silicate and oxide minerals of the crust and mantle (99.5%). ✓ Only a small portion has been released as free oxygen to the biosphere (0.01%) and atmosphere (0.36%). The main source of atmospheric free oxygen is photosynthesis.</p>	<p>50. ALL INDIA COORDINATED PROJECT ON CAPACITY BUILDING IN TAXONOMY – AICOPTAX. The Project has organized specialist groups drawn from Universities, Botanical and Zoological Surveys of India to take up taxonomic work on animal viruses, bacteria and archaea, algae, fungi, lichens, bryophytes, pteridophytes, gymnosperms, palms, grasses, bamboos, orchids, helminthes and nematodes, Microlepidoptera and Mollusca.</p>
<p>44. Kalinga is the ancient name of coastal Orissa. Ashoka fought a war to conquer Kalinga. However, he was so horrified when he saw the violence and bloodshed that he decided not to fight any more wars. He is the only king in the history of the world who gave up conquest after winning a war.</p>	<p>52. Keystone species are those species which have an important place in an ecosystem and their absence may even lead to destruction of that ecosystem.</p>
<p>45. • It is the oldest evidence of rice in any part of the world. Evidence for barley cultivation is attested at Mahgara. • The bone remains from Koldihwa and Mahgara show that cattle, sheep and goat were domesticated in the region. In Mahgara, evidence of a cattle pen has also been met with.</p>	<p>53. > Mitochondrial donation is an IVF technique (also known as mitochondrial replacement IVF technique, mitochondrial transplant or mitochondrial replacement) that could prevent transmission of mitochondrial disease (mito) from mother to child. > The two new mitochondrial donation techniques being developed are maternal spindle transfer and pronuclear transfer. They involve transferring nuclear genetic material from the affected mother's egg into a donor egg that has had its nuclear DNA removed and retains only its healthy mitochondrial DNA; the resulting child therefore does not inherit the mitochondrial disease.</p>
<p>47. Mahasthangarh an ancient city built 2500 years ago, known as Pundranagar, has been declared as the cultural capital of SAARC. 2016 - 2017 has been declared the SAARC year of cultural heritage. It was the ancient capital of Pundravardhana i.e. home of the Pundra, a group of people not speaking languages of the Indo-European family.</p>	<p>54. The Buddha taught in the language of the ordinary people, Prakrit</p>
	<p>57. Pandavani: This story telling form from Chhatisgarh narrates the exploits of the five Pandava brothers. The team of Pandavani performers has one main narrator-singer, and one or two co-singers, who also play on musical instruments like the tabla and the harmonium. The main singer-narrator holds in one hand a tambura which is decorated with small jingling bells and peacock feathers and in the other a kartal.</p>

59.	Aryabhata, a mathematician and astronomer, wrote a book in Sanskrit known as the Aryabhatiyam. He stated that day and night were caused by the rotation of the earth on its axis, even though it seems as if the sun is rising and setting every day. He developed a scientific explanation for eclipses as well.	<p>has developed a credible literature around it which are in the sutra form i.e., precepts. This is a very precise and exact form of expression in prose which was developed by the ancient Indians. Panini's Ashtadhyayi, book on grammar in eight chapters is the final culmination of this excellent art of writing in sutra (precepts) in which every chapter is precisely interwoven.</p> <p>➤ Kalidasa's Malavikagnimitram is based on some events of the reign of Pusyamitra Sunga, a dynasty which followed Mauryas.</p>
60.	In 1822, Chittur Singh of Satara gathered Ransis against the heavy assessment by the British and plundered the neighboring regions of Satara. The Ramosis around Poona revolted in 1826 under the leadership of Umaji Naik and his supporter Bapu Trimbakji Sawant. For three years the Ramosis continued to harass the British. The British Government Followed a pacifist policy condoning the crimes of the Ramosis , granting them land and recruiting them as hill police.	
61.	Nagpur city and China's Jinan city have become sister cities for exchange of ideas and technology. Sister Cities exchange notes and look to bring synergy in various areas including education, culture, sports, youth affairs, urban planning, waste water management, infrastructure, environment, public health and exchange of trade and commerce.	69. Odisha is the first region in the country to give transgender people social welfare benefits – such as a pension, housing and food grains – usually allocated for only the most impoverished. Niten Chandra, principal secretary of Odisha's Department of Social Security, said the move to give the transgender community the same benefits as those living below the poverty line was aimed at improving their overall social and economic status.
63.	Some important Chalcolithic cultures are: Ahar culture 2800-1500 B.C Kayatha culture 2450-i 700 B.C. Malwa culture 1900-1400 B.C. Savaldia culture 2300-2000 B.C. Jorwe culture 1500 -900 B.C. Prabhas culture 2000-1400 B.C. Rangpur culture 1700-1400 B.C. The most distinguishing feature of these Chalcolithic cultures is their distinct painted pottery.	70. The Sindhu or Indus rises from the Kailasa Manasarovar area in the Tibetan plateau, runs west and northwest for about 1300 Kms, between the Karakoram range. Then joined by the by the Gilgit river, it turns south and reaches the plains where the five rivers join it to form Panchananda desha or Punjab. These five tributaries of the Sindhu from east to west are: the Sutlej (Satudri), the Beas (Vipasa), the Ravi (Parushm), the Chenab (Asikni) and the Jhelum (Vitesta). Sutlej or Satudri was once a tributary of the lost river Saraswati, but changed its course.
65.	<ul style="list-style-type: none"> ➤ The World Economic Forum on 28th June 2016 released the Human Capital Report 2016 ➤ The report has been prepared in partnership with consulting firm Mercer ➤ WEF's report presents an analysis by focusing on numerous key issues which can support better design of education policy and future workforce planning. ➤ Top 3 countries according to the index are Finland, Norway and Switzerland 	71. Scientists using a new approach to gas exploration have discovered a huge helium gas field in Tanzania which could address shortage of vital yet rare element.
68.	<ul style="list-style-type: none"> ➤ Six vedangas (limbs of Vedas) were evolved for the proper understanding of the Vedas. These are Siksha (phonetics), Kalpa (rituals), Vyakarna (grammar), Nirukta (etymology), Chhanda (metrics), and Jyotisha (astronomy). Each vedanga 	72. Under BLC, beneficiaries will be assisted for construction of new houses and enhancement of existing houses to make them more livable.
		73. Since the introduction of Buddhism into China in the first century A.D. the Chinese used the term Tien-Chu or Chuantu for India. But after HiuenTsang the term Yin -Tu came to be in vogue there. Hindu in Persian, Indos in Greek, Hoddu in Hebrew, Indus in Latin and Tien-chu in Chinese are all corrupt forms of Sindhu. Thus descendants of Bharata came to be known as Indians or Hindus.
		74. The entire world is animated: even stones, rocks and water have life.

77.	The mango shaped island was known in ancient times by the name of Tambaparni, a corrupt word from Sanskrit Tambrapgnri, i.e., having a look or shape of tambula or betel leaf. It was also known as Simhaladvipa.		him, had come to terms with old age, disease and death, and found peace. ➤ According to Buddhist philosophy, the world is transient (anicca) and constantly changing; it is also soulless (anatta) as there is nothing permanent or eternal in it.
80.	Rajaji National park has been granted the status of a tiger reserve by the Centre to boost tourism.	86.	Waves on the surface, or body waves that reach the surface, are called surface waves. Surface waves are slower than the slowest body wave, but they are the waves that cause the most damage. Surface waves can move up and down, almost like waves on the ocean. They can also move from side to side, often causing buildings to collapse.
81.	A network of 668 Protected Areas (PAs) has been established, extending over 1,61,221.57 sq. kms. (4.90% of total geographic area), comprising 102 National Parks, 515 Wildlife Sanctuaries, 47 Conservation Reserves and 4 Community Reserves.		
82.	Five sports, including baseball, skateboarding and surfing, are set to feature at the 2020 Tokyo Olympics after the IOC recommended them to attract a younger audience and boost local support for the Games.	88.	Most Harappan sites are located in semi-arid lands, where irrigation was probably required for agriculture. Traces of canals have been found at the Harappan site of Shortughai in Afghanistan, but not in Punjab or Sind.
83.	The Puranic literature is very vast and we have 18 main Puranas, 18 subsidiary Puranas and a large number of other books. It is interesting to note that in all the Puranas royal genealogies are dealt with the reign of Parikshit, the grandson of Arjun, as a benchmark. All the earlier dynasties and kings have been mentioned in past tense. While the latter kings and dynasties have been narrated in future tense. This may be because of the fact that the coronation of Parikshit marks the beginning of Kali Age. Many scholars think that this also points to the fact that perhaps the Puranas were completed during the reign of Parikshit.	89.	It reflects people's preference for liquidity. It is a purely behavioural parameter which depends, among other things, on the seasonal pattern of expenditure. For example, cdr increases during the festive season as people convert deposits to cash balance for meeting extra expenditure during such periods.
84.	<ul style="list-style-type: none"> ➤ Pradhan Mantri Surakshit Matritva Abhiyan (PMSMA) a Modi government initiative was launched in June 2016 ➤ Scheme aims at boosting healthcare facilities for pregnant and especially poor women ➤ It seems to protect pregnant ladies from infectious diseases as well ➤ Under this scheme, pregnant ladies will be given free health checkup and required treatment for free on the 9th of every month ➤ Scheme will be applicable to pregnant women to avail in government hospitals across India ➤ Scheme is applicable for women in the pregnancy period of 3-6 months ➤ Women belonging to semi urban, rural and poor areas will be accorded preference 	93.	<ul style="list-style-type: none"> • Pulkeshin II gives a dynastic genealogy and achievements in his Aihole inscription. • Gwalior inscription of Bhoja gives full account of his predecessors and their achievements. From the inscriptions we also came to know about the grant of land, free from all taxes, to the learned brahmins. These are called Agraharas.
		95.	<ul style="list-style-type: none"> ➤ The 'Hawa Badlo' movement is a people's initiative to fight air pollution which is supported by GAIL and city gas distribution companies. As part of the movement, a number of awareness drives have been carried out regarding the fight against air pollution. 'Hawa Badlo' also supports research initiatives in this regard, of which the CNG retrofitted two wheeler programme is a part. ➤ As per idle emission test, the hydrocarbon emissions from CNG retrofitted two wheelers are 75% lesser and CO emissions are 20% lesser as compared to petrol driven similar models.
85.	➤ He realized in that moment that the decay and destruction of the human body was inevitable. He also saw a homeless mendicant, who, it seemed to	96.	<ul style="list-style-type: none"> • India's Medicines with the Red Line campaign. • The campaign was launched in February 2016 by the Union Ministry of Health and Family Welfare to tackle the problem of growing misuse of

<p>antibiotics across the country.</p> <ul style="list-style-type: none"> • Its aim was to curb irrational use of antibiotics and create awareness on the side effects of taking antibiotics without prescription. • Under it, all prescription only antibiotics should be marked with a vertical red line on the packets. • The red line antibiotics packets should be consumed on doctor's advice and the patients need to complete the full course prescribed by the doctor. 	<p>Faridabad, Ahmedabad, Chennai, Bangalore and Hyderabad.</p> <ul style="list-style-type: none"> • The AQI has been developed by the Central Pollution Control Board in consultation with IIT-Kanpur and an expert group comprising medical, air-quality professionals and other stakeholders.
<p>100. The measurement of air quality is based on eight pollutants, namely,</p> <ul style="list-style-type: none"> • Particulate Matter (size less than 10 µm) or (PM10), • Particulate Matter (size less than 2.5 µm) or (PM2.5), • Nitrogen Dioxide (NO₂), • Sulphur Dioxide (SO₂), • Carbon Monoxide (CO), • Ozone (O₃), • Ammonia (NH₃), and • Lead (Pb) • There are six AQI categories, namely Good, Satisfactory, Moderately polluted, Poor, Very Poor, and Severe. • The AQI has been at present launched for 10 cities -- Delhi, Agra, Kanpur, Lucknow, Varanasi, 	<div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <h2 style="margin: 0;">POLITICAL SCIENCE</h2> <p style="margin: 0;">ALL INDIA RANK HOLDER FACULTY</p> </div> <div style="background-color: #e91e63; color: white; padding: 5px; text-align: center;"> <h2 style="margin: 0;">GENERAL STUDIES - PCM</h2> <p style="margin: 0;">NO BOOKISH TEACHING</p> </div> <div style="background-color: #008000; color: white; padding: 5px; text-align: center;"> <h2 style="margin: 0;">SOCIOLOGY</h2> <p style="margin: 0;">SCORE 371 - MAXIMUM ACHIEVED</p> </div> <div style="background-color: #3b4a8c; color: white; padding: 10px; text-align: center; border: 2px solid #e91e63; border-radius: 15px; margin-top: 10px;"> <h3 style="margin: 0;">WEEKLY CURRENT AFFAIRS & MAINS WRITING SKILLS PROGRAMME</h3> </div>

Crackingias.com

9884554654

Raja Sir's

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

CRACKING
IAS ACADEMY
— Since 2005 — Feel the Pulse of UPSC... —

POLITICAL SCIENCE

ALL INDIA RANK HOLDER FACULTY

& Mandatory for GS (PCM)

ONLY BEST FACULTY in Chennai FOR POLITICAL SCIENCE - RAJA SIR @ Cracking IAS Academy
Produced AIR < 20 twice & Many more IAS, IPS, IFS.

402 Selections since 2005

Answers

1. A	11. B	21. B	31. A	41. A	51. A	61. A	71. D	81. A	93. A
2. A	12. C	22. A	32. C	42. C	52. A	62. C	72. B	84. A	94. C
3. A	13. A	23. A	33. C	43. B	53. A	63. B	73. C	85. A	95. D
4. A	14. B	24. B	34. D	44. B	54. C	64. A	74. C	86. D	96. A
5. A	15. A	25. A	35. A	45. A	55. A	65. A	75. B	87. C	97. D
6. D	16. D	26. A	36. A	46. C	56. B	66. A	76. B	88. A	98. A
7. B	17. D	27. C	37. A	47. A	57. A	67. D	77. B	89. A	99. C
8. D	18. B	28. A	38. B	48. B	58. B	68. C	78. C	90. D	100. A
9. B	19. D	29. D	39. B	49. C	59. B	69. D	79. A	91. B	
10. D	20. A	30. D	40. D	50. A	60. D	70. B	80. B	92. A	

Explanations

2. Jahangir had a great fascination for nature and took delight in the portraiture of birds, animals and flowers. The best example of this period is the portrait of Jahangir himself, who is shown holding a picture of the Virgin Mary in his right hand. Some other illustrated manuscripts of Jahangir's time are animal fable book titled Ayar-i-Danish, Anwar-i-sunavli. Most of the paintings created during the time of Jahangir depict the durbar scenes, portraits, bird, animal and flower studies. Aqa Riza, Abul Hasan, Mansur, Bishan Das, Manohar, Goverdhan, Balchand, Daulat, Mukhlis, Bhim and Inayat were the famous painters in the court of Jahangir.
3. GRC project is under Ministry of Road Transport and Highways. The projects to be assigned to small contractors in small stretches of 8 -10 Km. A Green Highways Fund would be set apart utilizing 1% of the civil work cost while arriving at total road project cost. This will be transferred to NHAI. The plan is to grow three layers of trees and bushes. The first will be of bushes so that if a vehicle goes off the road, it does not collide with something life-threatening. The second will be of medium-sized trees and the last will be of tall fruit trees. Only species indigenous to the area would be planted.
4. The United Nations Environment Program established Champions of the Earth in 2004 as an annual awards program to recognize outstanding environmental leaders at a policy level. Six awards are given out each year to a Laureate representing different geographical regions with one additional special prize.
5. On the lines of UNCOVER project of Australia, the government intends to launch a special initiative to probe deep-seated/ concealed minerals deposits in the country in collaboration with National Geophysical Research Institute and the proposed NCMT and Geoscience Australia.
6. Jupiter has highest axial speed and hence smallest day.
7. It was in India that he coined the phrase 'Italian of the East' to refer to the Telugu language, which he found had words ending with vowels, similar to Italian.
12. > The compounds eat away at ozone, but only if light is present and the air is cold enough. This puts Polar Regions at particular risk when the sun returns after long dark winters.
Ozone depletion is primarily caused by man-made compounds that release chlorine and bromine gases in the stratosphere. Beginning in 1987, the internationally agreed-upon Montreal Protocol on Substances that Deplete the Ozone Layer has regulated these ozone-depleting compounds, such as chlorine-containing chlorofluorocarbons used in refrigerants and bromine-containing halon gases used as fire suppressants. Because of the Protocol, atmospheric levels of these ozone depleting compounds are slowly declining. The ozone hole is expected to recover back to 1980 levels in approximately 2070.
14. FAST (500 Metre Aperture Spherical Telescope) is the size of 30 football fields and has been cut out of the mountain in the SW province of Guizhou in China.
15. > Peninsular rivers have lower erosional capacity, but because of hard rock surface in the region and non-alluvial character of plateau, they travel almost straight and thus do not form meanders.
16. The 82°30' E longitude is taken as the Standard Time Meridian of India, as it passes through the middle of India (from Naini, near Allahabad). The time at the standard meridian 82°30' which passes through Mirzapur in UP is taken as the standard time of India, followed all over the country.
 - The longitudinal extent of India is 30°.
 - The sun rises in the east and sets in the west.
 - It takes 4 minutes for the sun to move across 1 longitude. Thus, the eastern most point of India would be 2 hours ahead of the western most point (30 x 4 = 120 minutes), in accordance with the local time.
 - This difference in time might create confusion in air and rail timings and so many other things across the two states. To avoid this confusion a longitude passing through the midpoint of 68° 7' East (western most longitude) and 97° 25' East (eastern most longitude) is taken as the standard prime meridian of India (i.e. 82°30').

17. India was placed 91st in the Networked Readiness Index 2016 released by Geneva based World Economic Forum on July 6, 2016.
18. Warren Hastings, confronted with the task of safeguarding British territories against the encroachments of the Marathas, and the militant rulers of Mysore, adopted the policy of a "Ring-Fence", that is, sought to guard the frontiers of the neighboring States by way of precaution.
19. Balphakram National Park is situated near the Garo Hills in Meghalaya. Also called as "abode of perpetual winds" as well as the "land of spirits." Home of the barking deer and golden cat.
20. The Perform Achieve Trade (PAT) is an innovative, market-based trading scheme announced by the Indian Government in 2008 under its National Mission on Enhanced Energy Efficiency (NMEEE) in National Action Plan on Climate Change (NAPCC). It aims to improve energy efficiency in industries by trading in energy efficiency certificates in energy-intensive sectors.
23. Gender-responsive planning and budgeting ensures that fiscal resources are generated and allocated in a way that affects women and men equitably.
24. The most common chemical elements in the crust are oxygen (46.6%), silicon (27.7), aluminum (8.1), iron (5.0), calcium (3.6), potassium (2.8), sodium (2.6), and magnesium (2.1).
25. Zika virus spreads through mosquito bites. There have been no outbreaks in India but passive immunity has been traced in Indian samples during 1952-53. Since then, there are no reports on this virus in India. Fever, rash, joint pain, and conjunctivitis (red eyes) are few common symptoms of Zika virus disease.
26. UN Human Rights Council in Geneva decided to appoint, for a period of three years, an independent expert on protection against violence and discrimination based on sexual orientation and gender identity. The United States and major European countries backed the resolution, while China, Russia and 16 African and predominantly Muslim states rejected it. India, South Africa and the Philippines were among the abstainers.
28. 'Solar Mamas', a group of rural women solar engineers from Africa who have been trained under GOI-supported programmes to fabricate, install, use, repair and maintain solar lanterns and household solar lighting systems in their villages.
30. Qualifications necessary to become a member of a committee of the sabha in the Chola Empire:
- Members of the sabha should be owners of land from which land revenue is collected.
 - They should have their own homes.
 - They should be between 35 and 70 years of age.
 - They should have knowledge of the Vedas.
 - They should be well-versed in administrative matters and honest.
 - Not has been a member of any committee in the last three years.
 - They should submit his accounts as well as of relatives to contest election.
32. An eminent, great sage Kapila was the founder of the Samkhya School. Based on the Upanishads, two schools of philosophy developed in India: (1) The realistic (e.g. Samkhya) (2) The idealistic (e.g. Vedanta). The Samkhya philosophy combines the basic doctrines of Samkhya and Yoga. However it should be remembered that the Samkhya represents the theory and Yoga represents the application or the practical aspects. Like Samkhya and Yoga, Jainism recognises a dualism of matter and soul.
33. ➤ Nirguna bhakti is the devotion towards a formless, all-encompassing God. The word 'nirgun' means 'devoid of qualities,' referring to the lack of physical attributes in God.
- It is one of the two forms of devotion prevalent in Hinduism, the other one being Sagun Bhakti which sees God in a physical form. A prominent preacher of Nirgun Bhakti was Saint Kabir, one of the pioneers of the Bhakti movement.
 - Kabir's guru was Ramanand.
34. Social Endeavor for Health and Telemedicine (SEHAT) is a telemedicine health initiative in India launched in August 2015. SEHAT initiative was launched with the motive to offer telemedicine center in rural areas of India where the people in rural areas can consult doctors online and also order generic drugs. Under the scheme Common Service Centers (CSC) with the support of Apollo and Medanta Hospital telemedicine services was already being offered in many areas.
35. ➤ Khangchendzonga National Park (KNP) in Sikkim has been inscribed as India's first mixed (cultural as well as natural) heritage site on the UNESCO World Heritage List.
- KNP exhibits one of the widest altitudinal ranges of any protected area which has valleys and spectacular snow-clad mountains including the world's third highest peak, Mt. Khangchendzonga.
 - Incidentally, this was the first instance where both the International Union for Conservation of Nature (IUCN) and International Council on Monuments and Sites (ICOMOS) gave what was termed a "clear and

- positive recommendation" for inscription of a Natural/ Mixed site from India.
- The number of Indian sites on the World Heritage List has now become 35 including seven natural, 27 cultural and one mixed.
36. The Asiatic Registration Act of the Transvaal Colony was an extension of the pass laws specifically aimed at Asians (Indians and Chinese). Under the Act every male Asian had to register himself and produce on demand a thumb-printed certificate of identity. Unregistered persons and prohibited immigrants could be deported without a right of appeal or fined on the spot if they fail to comply with Act. In response to the Transvaal Asiatic Registration Act, and to prevent the Asiatic community of South Africa suffering intolerable humiliation, Gandhi developed the concept of satyagraha.
37. Nano-cellulose, a novel nano-sized cellulosic material derived from various agro-biomasses, exhibits very high strength, extremely large surface area, novel rheological property and entirely different optical property. Nano-cellulose has proven applications as reinforcing agent in composites and concretes, additives in papers and paints, controlled pesticide release agent, drug delivery agent and in transparent flexible electronics.
38. In India Tropic of Cancer passes through 8 States. (Rajasthan, Gujarat, Madhya Pradesh, Chhattisgarh, Jharkhand, West Bengal, Tripura and Mizoram.) Agartala (Tripura) which lies on 23.51 degree north is nearest to the Tropic of Cancer in India.
41. The Mars Orbiter Mission probe lifted-off using Polar Satellite Launch Vehicle (PSLV). ISRO has set up a Deep Space Network (DSN) center in Byalalu. Its saucer-like shape that would help in blocking radio frequency disturbances.
42. Bhabhatron, the indigenous telecobalt machine, is one of the successful products developed by Bhabha Atomic Research Centre, Mumbai for cancer treatment.
43. Cloudbursts do happen in plains as well, but there is a greater probability of them occurring in mountainous zones; it has to do with the terrain. Cloudbursts happen when saturated clouds are unable to produce rain because of the upward movement of very warm current of air. Raindrops, instead of dropping down, are carried upwards by the air current. New drops are formed and existing raindrops gain in size. After a point, the raindrops become too heavy for the cloud to hold on to, and they drop down together in a quick flash. Hilly terrains aid in heated air currents rising vertically upwards, thereby, increasing the probability of a cloudburst situation. In addition, as pointed out earlier, cloudbursts get counted only when they result in large-scale destruction of life and property, which happens mainly in mountainous regions.
46. The structures at Jajau indicate the increased Mughal travel towards the Deccan, corroborated by the amount of time Aurangzeb spent there.
48. Definite signs of liquid water have been found by the high-resolution camera on Nasa's Mars Reconnaissance Orbiter on the surface of the red planet. Scientists discovered waterlogged molecules — salts of a type called as perchlorates — in orbit readings. That's a direct detection of water in the form of hydration of salts.
49. There was a gun and bomb attack at this airport.
50. Together the crust and upper mantle are called the lithosphere and they extend about 80 km deep. The lithosphere is broken into giant plates that fit around the globe like puzzle pieces. These puzzle pieces move a little bit each year as they slide on top of a somewhat fluid part of the mantle called the asthenosphere. All this moving rock can cause earthquakes.
52. ➤ **Kuiper Belt** is a belt beyond our planet solar system zone and it holds more than 70,000 celestial bodies and it lies beyond the 8 planets and it includes the dwarf planets (including pluto). Eris is the largest object in the Kuiper Belt. Short period comets emerge out of Kuiper Belt. **Oort cloud** is area of replenishment that lie beyond Kuiper belt the spherical swarm of comets extending beyond 50,000 AU from sun. Comets of long periodicity emerge out of this cloud like Hale Bopp. While comets are mainly made up of hydrogen and ice, asteroids are mainly made up of rocks and metal.
55. The best known example of the Lodi Style is the famous Aranyaka Parvan belonging to the Asiatic Society, Bombay painted in 1516 A.D. during the victorious reign of Sikandar Shah Lodi at Kachuvava, about 57 miles away from Agra.
56. Kabir adopted a style called the ultabasi, which consisted of paradoxes and enigmas. Rajatarangini, ("River of Kings") historical chronicle of early India, written in Sanskrit verse by the Kashmiri Brahman Kalhana in 1148. Jonaraja was a Kashmiri historian and Sanskrit poet. His Dvitya Rajatarangini is a continuation of Kalhana's Rajatarangini and brings the chronicle of the kings of Kashmir down to the time of the author's patron Zain-ul-Abidin.
60. Shankar Acharya committee will be examining merits and demerits of various dates for commencement of financial year including the existing date (April to March).
63. The five states are West Bengal, Tripura, Meghalaya, Assam and Mizoram. India and Bangladesh share a 4,096

- km-long international border. Most of the border is fenced except for a few kilometres.
64. Mughal king Akbar had a copy of the Mahabharata translated into Persian.
67. The highest point in the Aravalli Range is called as Guru Shikhar, which is located in Mount Abu. At this point, the peak rises to about 5653 feet.
70. The Mekong-Ganga-Cooperation Asian Traditional Textiles Museum opened in Siem Reap (Cambodia) and showcases different textiles and weaving techniques from the Mekong Ganga region – Cambodia, Laos, Vietnam, Thailand, Myanmar and India.
71. Duncan pass is located between South and little Andaman. Duncan Passage is a strait in the Indian Ocean. It is about 48 km (30 mi) wide; it separates Rutland Island (part of Great Andaman) to the north, and Little Andaman to the south. West of Duncan Passage is the Bay of Bengal; east is the Andaman Sea.
73. Arctic council has eight member countries: Canada, Denmark, Finland, Iceland, Norway, Russia, Sweden, and the United States. China, India, Italy, Japan, Singapore, South Korea, Netherlands, Poland, Spain, United Kingdom, France, Germany are observers of Arctic council.
74. Even NGOs can take up NH stretches for plantation and their maintenance for five years. The plantation is estimated to sequester approximately 12 lakh tonnes carbon annually. 'Kisan Harit Rajmarg Yojana' is for farmers to plant trees along their farms bordering highways
79. India has been ranked at the 90th place in a list of 126 countries in the latest Global Energy Architecture Performance Index Report compiled by World Economic Forum (WEF) on the basis of their ability to deliver secure, affordable and sustainable energy. The list is topped by Switzerland followed by Norway, Sweden, Austria, Denmark, etc.
80. Tolkappiyam deals with orthography, phonology, morphology, semantics, prosody and the subject matter of literature. The Tolkappiyam classifies the Tamil language into sentamil and koduntamil. The former refers to the classical Tamil used almost exclusively in literary works and the latter refers to the dialectal Tamil, spoken by the people in the various regions of ancient Tamilagam.
81. Mamluk dynasty did not employ true Islamic architecture styles and used false domes and false arches. The first example of the true arch and true dome is in Alai Darwaja located in Qutub Complex. It was built by Alaud-din Khilji in 1311 AD.
88. Jahangir is most famous for his golden "chain of justice." The chain was set up as a link between his people and Jahangir himself. Standing outside the castle of Agra with sixty bells, anyone was capable of pulling the chain and having a personal hearing from Jahangir himself.
89. Tughluqabad, founded by Ghiyasuddin Tughluq. Alauddin Khalji built the Alai Darwaza.
91. Kirkwood gaps are gaps in the distribution of asteroid orbital periods. These gaps occur at simple fractions (e.g. 1/2, 1/3, etc) of Jupiter's orbital period. Kirkwood gaps are caused by the gravitational interaction between Jupiter and asteroids with these periods. The orbits of asteroids that fall into the Kirkwood gaps are regularly disturbed every few orbits (2, 3, etc.) The orbits are drawn into progressively more and more elliptical shapes until they come close enough to Jupiter for Jupiter's gravitational attraction to have more effect than the Sun's. At this point, the asteroid is usually flung completely out of the solar system. This same effect explains why Saturn's moon Mimas causes the Cassini division in Saturn's rings.
92. ➤ The term "classical" (Sanskrit: "Shastriya") was introduced by Sangeet Natak Akademi to denote the Natya Shastra-based performing art styles.
- A dance style is classical to the extent that it incorporates Natya Shastra techniques. Some of the styles, such as Kathak, use very few of these elements.
- Currently, Sangeet Natak Akademi does not consider the recently reconstructed dance styles of Andhra Pradesh, such as Andhra Natyam and Vilasini Natyam, as "classical." Bharatanrithyam, despite being the dance that most closely follows the Natya Shastra's precepts, is considered as a variety of Bharata Natyam.
- A very important feature of Indian classical dances is the use of the mudra or hand gestures by the artists as a short-hand sign language to narrate a story and to demonstrate certain concepts such as objects, weather, nature and emotion. Many classical dances include facial expressions as an integral part of the dance form.
96. ➤ Conduction is the process by which heat energy is transmitted through contact with neighboring molecules. Some solids, such as metals, are good conductors of heat while others, such as wood, are poor conductors. Air and water are relatively poor conductors.
- Since air is a poor conductor, most energy transfer by conduction occurs right at the earth's surface. At

night, the ground cools and the cold ground conducts heat away from the adjacent air. During the day, solar radiation heats the ground, which heats the air next to it by conduction.

- Convection transmits heat by transporting groups of molecules from place to place within a substance. Convection occurs in fluids such as water and air, which move freely. In the atmosphere, convection includes large- and small-scale rising and sinking of air masses and smaller air parcels. These vertical motions effectively distribute heat and moisture throughout the atmospheric column and contribute to cloud and storm development (where rising motion occurs) and dissipation (where sinking motion occurs).
- Radiation is the transfer of heat energy without the involvement of a physical substance in the transmission. Radiation can transmit heat through a vacuum. Energy travels from the sun to the earth by means of electromagnetic waves. The shorter the wavelength, the higher the energy associated with it. This is demonstrated in the animation below. As the drill's revolutions per minute (RPMs) increase, the number of waves generated on the string increases, as does the oscillation rate. The same principle applies to electromagnetic waves from the sun, where shorter wavelength radiation has higher energy than longer wavelength radiation.

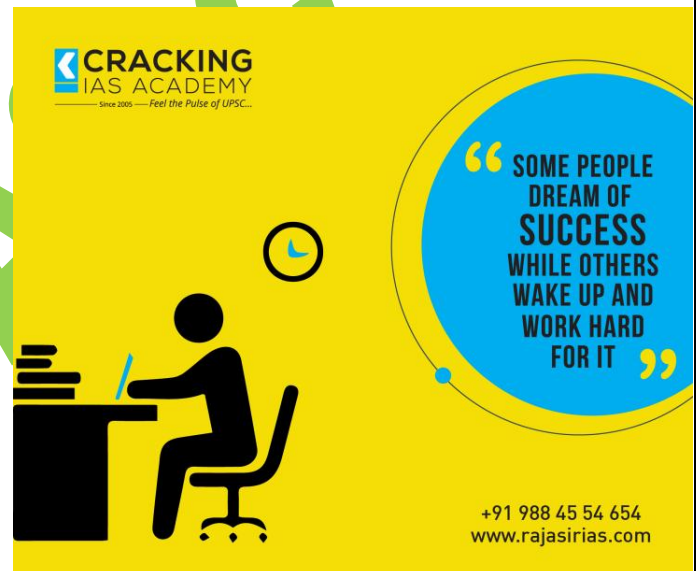
98. Satellite cells are precursors to skeletal muscle cells, able to give rise to satellite cells or differentiated skeletal muscle cells. Satellite cells are able to differentiate and fuse to augment existing muscle fibers and to form new fibers. These cells represent the oldest known adult stem cell niche, and are involved in the normal growth of muscle, as well as regeneration following injury or disease.

99. **The text of the document called Mahzar, by which Akbar assumed the role of supreme arbiter in the matters of religion is found in**
- (a) Nizamuddin's Tabaqat-I-Akbari
 - (b) Arif Quandahari's Tarikh-I-Alfi
 - (c) Abul Fazl's Akbarnama
 - (d) Badauni's Muntakahab-ut-Tawarikh

Note:

With the Mahzar Nama, Akbar pounced upon the dominance of the intolerant orthodox and allowed free development of a genuine religious spirit. Mahzar Nama was actually an idea of the father of Abul Fazal and Faizi, set that the authority of the King was higher than that of a Mujtahid (doctor of the faith) and if there is a variance, the emperor's decision should be binding on the Muslims of India. With this edict, Akbar's judgment

was set above every legal and religious authority, so it was the promulgation of the doctrine of Imperial infallibility.




Answers

1.	c	11.	c	21.	c	31.	d	41.	c	51.	c	61.	c	71.	d	81.	c	91.	c
2.	d	12.	d	22.	c	32.	d	42.	a	52.	c	62.	a	72.	a	82.	c	92.	c
3.	c	13.	b	23.	b	33.	a	43.	b	53.	b	63.	a	73.	a	83.	b	93.	d
4.	a	14.	c	24.	d	34.	a	44.	a	54.	b	64.	d	74.	a	84.	a	94.	c
5.	a	15.	a	25.	a	35.	b	45.	a	55.	a	65.	b	75.	c	85.	a	95.	d
6.	c	16.	b	26.	b	36.	a	46.	a	56.	a	66.	c	76.	b	86.	b	96.	b
7.	b	17.	a	27.	d	37.	a	47.	a	57.	a	67.	a	77.	b	87.	b	97.	b
8.	d	18.	a	28.	d	38.	a	48.	a	58.	b	68.	a	78.	d	88.	b	98.	c
9.	d	19.	d	29.	b	39.	c	49.	c	59.	d	69.	a	79.	c	89.	b	99.	b
10.	a	20.	a	30.	a	40.	c	50.	c	60.	d	70.	b	80.	c	90.	b	100.	b

Explanations

3.	Mars's largest moon Phobos is falling towards the planet and will soon disappear to form a ring much like Saturn and Jupiter. Phobos is set to be destroyed in 20 to 40 million years and the ring will exist from 1-100 million years. Phobos will not be able to resist tidal forces pulling it apart when it nears Mars, scientists have said. Mars's other moon Deimos will remain. Scientists have also found the Sun's UV rays caused Mars, which was once warmer and wetter, to lose its atmospheric CO ₂ .	making it lighter and faster than fuel-carrying rockets.
4.	The Bhartiya Janta Party (BJP) is all set to start off the yearlong birthday centenary celebrations of Pundit Deendayal Upadhyaya, beginning on September 23.	8. The Moderates were described as the counterpart's of the English liberals in India.
7.	Scramjet is a supersonic combustion engine that uses oxygen from the atmosphere for fuel,	11. The RCEP is an ASEAN-centred proposal for a regional free trade area, which would initially include the ten ASEAN member states and those countries which have existing FTAs with ASEAN – Australia, China, India, Japan, Republic of Korea and New Zealand. The 16 RCEP participating countries account for almost half of the world's population, almost 30 per cent of global GDP and over a quarter of world exports.
		13. <ul style="list-style-type: none"> The Food Safety and Standards Authority of India (FSSAI) is commemorating it's first decade by launching 10@10 initiatives to cover every place where food is consumed; metabolic

	<p>disorders, food safety training and certification, quick access to food standards and the strengthening of all State Food Testing Laboratories.</p>	<p>1.86 metres to finish third in the event which was won by Tamil Nadu's Mariyappan Thangavelu who jumped 1.89m.</p> <ul style="list-style-type: none"> • GSLV-F05, carrying an advanced weather satellite 'INSAT -3DR'.
14.	<p>These diverging winds are the result of an area of high pressure, which is characterized by calm winds, sunny skies and little or no precipitation.</p>	<p>21.</p> <ul style="list-style-type: none"> • India has added nine new germplasm of farm animals including a poultry variety to its list of indigenous breeds. Newly enlisted live-stocks include one breed of cattle, two breeds each of goat and sheep, three breeds of pig, writes Basudev Mahapatra. • Of the animals registered this year, the 'Badri cattle,' seen in the hilly areas of Uttarakhand, are "well adapted to the hilly terrain and climatic conditions and comparatively more resistant to diseases," a release issued by the government said. • Two goat breeds include the 'Teresa Goat' of the Nicobar Islands and the 'Kodi Adu Goat,' native to Thoothukudi and Ramanathapuram districts of Tamil Nadu. • While the breed of 'Chevaadu sheep' is found in Tirunelveli district of Tamil Nadu, the 'Kendrapada sheep' is seen in the coastal districts of Odisha. • Among the three pig breeds, the 'Tenyi Vo pig' is reared in Nagaland for pork production. The 'Nicobari pig' is a fast runner variety from the Nicobar Islands and the
19.		
20.	<ul style="list-style-type: none"> • 'Citizen and Society' written by Vice President Mohd Hamid Ansari. • Surface to Air Missile – 'Barak-8' developed jointly with Israel. By DRDO. • Varun Singh Bhati is the name which is making headlines across India after winning the bronze medal in the men's high jump T-42 event at the Rio Paralympics on Saturday. Bhati recorded his personal best jump of 	

<p>'Doom pig,' with a short concave snout, is native to the Assam state.</p> <ul style="list-style-type: none"> The poultry breed enlisted this year is the 'Kaunayen chicken' (pictured above) that has an elongated body with a long neck and long legs. Used for cock-fighting as well, this breed is mostly seen in the north-eastern valley regions of India. With the fresh registration, the total number of indigenous breeds in the country becomes 160 comprising 40 cattle, 13 buffalo, 26 goat, 42 sheep, 6 horses and ponies, 9 camel, 6 pig, 1 donkey and 17 chicken breeds. 	<p>to a liquid during condensation, clouds are formed.</p>
<p>24. Termites eat wood and produce methane as a result of the breakdown of cellulose in their digestive tracts. They are thought to be responsible for 11% of the methane in the atmosphere (some estimates are as high as 20% - 40%). The clearing of the rain forests greatly impacts termite populations and in turn the methane content of the atmosphere. When a patch of rain forest is cleared, termite populations explode due to the ample food source that is left behind. Water vapor can vary from 4% in the steamy tropics to nearly nonexistent in the cold dry regions of the Antarctic. Water vapor is a good absorber of Earth's outgoing radiation and thus is considered a greenhouse gas. When water vapor is converted</p>	<p>28. • The Asia Pacific Trade Agreement or APTA (formerly the Bangkok Agreement) is an initiative under the United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP) for trade expansion through exchange of tariff concessions among developing country members of the Asia Pacific Region.</p> <p>• The current membership of APTA consists of six countries or Participating States (PSs), namely, Bangladesh, China, India, Lao PDR, Republic of Korea, and Sri Lanka. Since this is a preferential trade agreement, the basket of items as well as extent of tariff concessions are enlarged during the trade negotiating rounds which are launched from time to time.</p> <p>31. • CRISPR-Cas9 gene-editing technique allows scientists to selectively edit genome parts and replace them with new DNA stretches. Cas9 is an enzyme that can edit DNA, allowing the alteration of genetic patterns by genome modification.</p> <p>• CRISPR is a collection of DNA sequences that direct Cas9 where to cut and paste.</p> <p>32. The highest point in the Aravalli Range is called as Guru Shikhar, which is located in Mount Abu.</p>

	At this point, the peak rises to about 5653 feet.	grass-root leadership not in favour of non-violence taking over the movement, the authorities succeeded in bringing it to an end. The Kisan movements were also over shadowed by the Non-Cooperation Movement in UP. By March 1922, severe repression by authorities brought the movement to an end.
35.	In between the rabi and the kharif seasons, there is a short season during the summer months known as the Zaid season.	<p>37.</p> <ul style="list-style-type: none"> • Zardozi is beautiful metal embroidery, which was used for the attire of the Kings and the royals in India. Persian terms Zar meaning gold and Dozi meaning embroidery. • It involves making elaborate designs, using gold and silver threads. Precious stones, diamonds, emeralds, and pearls are also used. • Uses: to adorn walls of the royal tents, scabbards, wall hangings and the paraphernalia of regal elephants and horses. • Zardosi attained its summit in the 17th century, under the patronage of Akbar. Under the rule of Aurangzeb, the royal patronage stopped and led to the decline of craft. • With the 18th and 19th century bringing industrialization, it suffered further setback. • Zardosi embroidery work is mainly a specialty of Lucknow, Bhopal, Hyderabad, Delhi, Agra, Kashmir, Mumbai, Ajmer and Chennai. • In 2013 the Geographical Indication
36.	<p>Towards the end of 1921, peasant discontent surfaced again in the districts of Hardoi, Bahraich and Sitapur (UP), with grievances relating to:</p> <ul style="list-style-type: none"> ➤ High rents- 50 per cent higher than the recorded rates; ➤ Oppression of thikadars in charge of revenue collection; and ➤ Practice of share-rents. <p>The meetings of the Eka or the Unity Movement involved a symbolic religious ritual in which the assembled peasants vowed that they would</p> <ul style="list-style-type: none"> ➤ Pay only the recorded rent but would pay it on time; ➤ Not leave when evicted; ➤ Refuse to do forced labour; ➤ Give no help to criminals; ➤ Abide by panchayat decisions. <p>The grassroots leadership of the Eka Movement came from Madari Pasi and other low-caste leaders, and many small zamindars. Congress and Khilafat leaders provided the initial thrust to the peasant grievances and the movement grew under the name Eka or unity movement. With</p>	

	Registry (GIR) accorded the Geographical Indication (GI) registration to the Lucknow Zardozi.		Landforms helps to determine the climate of an area. Longitude does not affect climate. Longitude specifies the east-west position of a point on the Earth's surface.
41.	Africa is well on its way to realise the vision of "Agenda 2063: The Africa We Want". And in this journey, India will be there as a friend and privileged partner, to share our experience and resources, to support African nations in whatever manner they want.	52.	Cameco Corporation the world's largest publicly traded uranium company is based at Canada. Cameco Inc. has signed a supply agreement with the Department of Atomic Energy of India to provide 7.1 million pounds of uranium concentrate under a long-term contract through 2020. In 2015, it was the world's second largest uranium producer, accounting for 18% of world production.
42.	<p>Government has approved the research and development of Advanced Ultra Super Critical (AUSC) Technology for Thermal Coal Power Plants.</p> <ul style="list-style-type: none"> The project will enable Indian industries to design, manufacture and commission higher efficiency coal fired power plants with indigenously developed technology and manufacturing processes. This will be the first time large power plant equipment will be manufactured with advanced technologies, but without any Technological Collaboration/ Licensing Agreement with foreign companies. 	55.	DAY is a Government of India scheme for the helping the poor by providing skill training.
45.	MAA (Mothers Absolute Affection) is a flagship programme to ensure adequate awareness is generated among masses, especially mothers, on the benefits of breastfeeding.	56.	Siachen Glacier is the longest glacier in the Karakoram and second-longest in the world's non-polar areas. The Fedchenko Glacier is the longest glacier in the world outside of the polar regions.
47.	Latitude, Elevation, Air Masses, Prevailing Winds, Nearness to water, Ocean Currents,	57.	The Rashtrapati Bhavan Museum Complex will host an Art Exhibition of eminent artist and sculptor Ms. Rouble Nagi from October 2 to 10, 2016 in its Art Gallery. The Exhibition titled "Flamenco" will include recently created sculptures and paintings.
		61.	Unlike the earlier Kisan Sabha movement that was based almost solely on tenants, the Eka Movement included in its ranks many small

	zamindars who found themselves disenchanted with the Government because of its heavy land revenue demand.		high humidity, light winds, and warm sea surface temperatures [typically 26.5 degrees Celsius (80 Fahrenheit) or greater]. These conditions usually prevail in the summer and early fall months of the tropical North Atlantic and North Pacific Oceans, and for this reason, hurricane “season” in the northern hemisphere runs from June through November.
63.	Io is in Jupiter.		
64.	The Moderates achieved parts at success when the British Government passed the new Indian Councils Act, in 1892. This Act increased the number of non-official members, a few of them were to be indirectly elected. Members of the council were granted right to speak on the budget.	72.	Vir Sawarkar was the first Indian to kindle the foreign clothes. He acquired scholarship from the institute of Shyamji Krishna Verma and went to London for further studies. Vir Sawarkar wrote a book titled '1857: India's first freedom struggle'. It was banned even before it was published.
65.	NEW DELHI DECLARATION ON EDUCATION adopted in the 4th Meeting of BRICS Ministers of Education in New Delhi, on September 30, 2016.	76.	The expression “green gold” has been coined to refer to bamboo.
66.	<ul style="list-style-type: none"> In case of sugarcane, MSP has been assigned a statutory status and as such the announced price is termed as statutory minimum price, rechristened as Fair Remunerative Price (FRP). There is statutory binding on sugar factories to pay the minimum announced price and all those transactions or purchase at prices lower than this are considered illegal. 	79.	“Giftmilk” scheme aims to improve child nutrition thought consumption of milk & milk products by providing milk free of cost.
69.	Government of India has awarded the distinction of classical language to Tamil, Sanskrit, Kannada, Telugu, Malayalam and Odiya.	84.	Friendship Bridge was built by the Soviets, on the Amu Darya, marking the boundary between Uzbekistan and Afghanistan.
71.	Hurricanes form over tropical waters between 8 and 20 degrees latitude. They occur in areas of	87.	The world’s largest aircraft embarked on its maiden flight on August 17th 2016 from an airfield in Cardington, Central England. It is called Airlander 10 and is part plane part airship.
		88.	A SUPERMOON is a new or full moon which occurs with the moon at or near (within 90% of)

	<p>its closest approach to Earth in a given orbit. Thus in order to be a Super Moon, the Moon must come within 361,863 kilometers (224,851 miles) of our planet, as measured from the centers of the moon and Earth. A MICRO MOON is the name given to a Full Moon that occurs when the moon is farthest from the Earth.</p>
<p>89. PSLV-C35 carried seven co-passenger satellites from Algeria, Canada, USA and two from India.</p>	<p>91. The Army has admitted in the Supreme Court that recruitment to President's Bodyguard (PBG) is open only to Hindu Rajputs, Hindu Jats and Jat Sikhs, saying that it is done purely on "functional requirement" and there is no caste and religion bias in it. Unlike what its name suggests, it is purely a ceremonial unit tasked to perform ceremonies as per the protocol at the Rashtrapati Bhawan. The ceremonial duties demand common height, built, appearance and dress for reason of pomp and projection which are important military attributes while performing such duties.</p>
<p>90.</p> <ul style="list-style-type: none"> • Based on the recommendations of the Commission for Agricultural Costs and Prices, the Department of Agriculture and Co-operation, Government of India, declares Minimum Support Prices (MSP) for 24 crops before their sowing seasons. • The MSP is fixed on the recommendations of the Commission for Agricultural Costs and Prices (CACP). The CACP is a statutory body and submits separate reports recommending prices for Kharif and Rabi seasons. • The Central Government after considering the report and views of the State Governments and also keeping in view the overall demand and supply situation in the country, takes the final decision. • Cabinet Committee on Economic Affairs finally approves it. 	<p>93. The World Travel and Tourism Council (WTTC) has published the report "Connecting Global Climate Action" in 2015.</p> <ul style="list-style-type: none"> • This report outlines the progress the Travel and Tourism sector has made since the initial publication of "Leading the Challenge on Climate Change" and the sectors' renewed commitments and priorities and serves as a roadmap for further industry collaboration and collective advancement. <p>100</p> <ul style="list-style-type: none"> • 8th Meeting of Heads of SAARC Statistical Organizations (SAARCSTAT) was recently held in New Delhi. • Eminent Dogri language Poetess and novelist Padma Sachdev was awarded the prestigious 2015 Saraswati Samman for her

Raja Sir's

CRACKING
IAS ACADEMY

Since 2005 — Feel the Pulse of UPSC... CSAT PAPER 1 - 2017 - TEST - 3

CrackingIAS.com

autobiography 'Chitt-Chete'.

- LEMOA - Logistics Services Agreement (LSA) permits the US and India to use each other's facilities and provides for easier access to supplies and services for the military forces of the two countries when they are engaged in specific types of activities.
- Operation Muskaan - was launched by Union Ministry of Home Affairs. The main aim of the programme was to prevent child trafficking and rescue children from persons who tried to engage them in begging, sexual trade and other antisocial activities.

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

“ SOME PEOPLE DREAM OF SUCCESS WHILE OTHERS WAKE UP AND WORK HARD FOR IT ”

+91 988 45 54 654
www.rajasirias.com

9884554654

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Raja Sir's

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

Sail thru GS OCEAN
UPSC cannot
Escape Our Prediction

Joining CrackingIAS for GS - My best choice in Life. Thavaseelan, IAS
Produced AIR < 20 twice, <40 once, & Many more IAS, IPS, IFS.

402 Selections since 2005

CrackingIAS.com

Call: us: 09884554654

Political Science, Sociology, General Studies, Essay & CSAT

IAS Express – a monthly current affairs booklet

8

Answers

1. A	11. C	21. A	31. C	41. D	51. A	61. B	71. A	81. 1	91. C
2. C	12. A	22. D	32. B	42. B	52. A	62. D	72. C	82. C	92. D
3. A	13. C	23. a	33. C	43. C	53. B	63. D	73. B	83. C	93. D
4. B	14. D	24. D	34. D	44. A	54. D	64. C	74. A	84. A	94. A
5. C	15. A	25. C	35. C	45. B	55. C	65. B	75. C	85. D	95. D
6. B	16. A	26. B	36. C	46. C	56. D	66. B	76. C	86. C	96. B
7. B	17. A	27. C	37. C	47. C	57. D	67. B	77. A	87. B	97. A
8. A	18. A	28. D	38. D	48. C	58. C	68. B	78. B	88. A	98. C
9. B	19. A	29. A	39. A	49. A	59. B	69. B	79. C	89. C	99. B
10. C	20. C	30. D	40. C	50. D	60. D	70. B	80. B	90. C	100. A

Explanations

1.	If the reflected sound wave reaches the ear in less than 1/10th of a second the brain cannot make out the difference between the original sound and the echo. If the reflected sound wave reaches the ear after 1/10th of a second then a distinct echo can be heard. To hear ma distinct echo, the surface reflecting the sound should be at least 17 meters away.		New Zealand does not support India's bid to NSG because it is a part of New Agenda for Coalition which promotes the NPT and pushes for nuclear disarmament worldwide.
3.	Antartica's Ross Sea was declared as world's largest Marine Protected Area (MPA) to protect the Earth's most pristine marine ecosystem. It was declared after landmark international agreement among 24 countries and European Union in Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) meeting in Hobart, Australia. The Conservation of Antarctic Marine Living Resources (CCAMLR) was established by international convention in 1982 with the objective of conserving Antarctic marine life. It is part of the Antarctic Treaty System. It was signed by 14 states and has been ratified by 35 states (including India) and the European Community.	8.	Baking soda will restore the pH balance of the skin and prevent any kind of itching and infection that could be caused due to the ant bite.
7.	The New Agenda Coalition (NAC), composed of Brazil, Egypt, Ireland, Mexico, New Zealand and South Africa, is a geographically dispersed group of middle power countries seeking to build an international consensus to make progress on nuclear disarmament, as legally called for in the nuclear NPT.	9.	It happens because of Static electricity. Static electricity is the accumulation of electrical charges on the surface of a non-conducting material. It is called "static" because there is no current flowing.
		11.	The smooth-coated Otter is a carnivorous mammal. The fur of this species is smoother and is distributed throughout South Asia and South East Asia. It has been categorised 'vulnerable' in the red data book of International Union for Conservation of Nature (IUCN). It was sighted for the first time in the mangrove forest adjacent to the Krishna Wildlife Sanctuary in Krishna district. In all, seven otters were sighted in the mangrove forests and brackish water channels.
		12.	In the retina are two kinds of sensors: rods and cones. The cones function at high levels of illumination and mediate colour vision which is called photopic vision. The rods function at low levels of illumination when the eye has become dark-adapted and do not give the sensation of colour, a process called is scotopic vision.
		15.	Coastal areas of Andhra Pradesh, Tamil Nadu and

	Odisha witnessed rainfall due to Kyant.		(H7N9) and A (H5N1) virus strains have caused serious infections in people. The infections in humans have been associated with direct or indirect contact with infected live or dead poultry.
20.	A fullerene is a pure carbon molecule composed of at least 60 atoms of carbon. Because a fullerene takes a shape similar to a soccer ball or a geodesic dome, it is sometimes referred to as a buckyball after the inventor of the geodesic dome, Buckminster Fuller, for whom the fullerene is more formally named. Fullerenes are seen as promising components of future micro-electromechanical systems (MEMS) and in nanotechnology.	30.	Arundhati Roy's second fiction, 'The Ministry of Utmost Happiness', will be published by Hamish Hamilton UK and Penguin India, after 19 years of her last released novel 'The God of Small Things'. The book is expected to be published in June 2017. The Ministry of Utmost Happiness characters will bring to life with such generosity and empathy that they can wake readers up and lend us new ways of looking at life.
21.	Within the Sapota tree's bark is the white, gummy sap the tree is famous for, called chicle. The part of the chewing gum after the flavour is gone is called Chicle.	41.	The Inter-State Council is a constitutional body to facilitate coordination between states and the centre. It is a recommendatory body to investigate and discuss subjects, in which some or all of the states or the Central government have a common interest. It is set up on the basis of provisions in Article 263 of the Constitution of India by a Presidential Order, 1990 based on the recommendation of Sarkaria Commission. The Inter-state council is not a permanent constitutional body for coordination between the states and Central government. Rather, President can establish it at any time if it appears to him that the public interests would be served by the establishment of such a council.
22.	MTCR was established by G-7 countries in 1987. It is only an informal political understanding and not an official treaty with legally binding obligations. The aim of the MTCR is to restrict the proliferation of missiles, unmanned air vehicles (UAVs), complete rocket systems and related technology for those systems capable of carrying a 500 kilogram payload for at least 300 kms, as well as systems intended for the delivery of weapons of mass destruction (WMDs). G7 countries: Canada, France, Germany, Italy, Japan, Great Britain, and the United States of America.	45.	The Living Planet Report is published every two years by the World Wide Fund for Nature since 1998. It is based on the Living Planet Index and ecological footprint calculations. The Living Planet Report is the world's leading, science-based analysis on the health of our only planet and the impact of human activity. Humanity's demands exceed the Earth's capacity to sustain us.
23.	When the piece of iron is lowered into the water, the water level in the bucket increases. And so the pressure at the bottom of bucket also increases. Thus the total thrust at the bottom also increases. Therefore the spring balance reading increases.	46.	The difference of potential involves is very high. Lightning originates when wind updrafts and downdrafts take place in the atmosphere, creating a charging mechanism that separates electric charges in
24.	The grazing animals like cows, buffaloes and deer are known as ruminants. They quickly ingest, swallow their leafy food and store it in the rumen. Later, the food returns to the mouth and the animal chews it peacefully.		
26.	Most avian influenza viruses do not infect humans. There is no evidence that the disease can be spread to people through properly cooked food. However A		

	clouds – leaving negative charges at the bottom and positive charges at the top. As the charge at the bottom of the cloud keeps growing, the potential difference between cloud and ground, which is positively charged, grows as well.		indigestible, parrot-like beaks of squid. It has been used in the perfume industry as a fixative for fine perfumes, for medicinal purposes and as an aphrodisiac.
47.	Fool's gold, is an iron sulfide with the chemical formula FeS_2 .	63.	Earthworms breathe through their skins. The skin of an earthworm feels moist and slimy on touching. Gases can easily pass through them. Though frogs have pair of lungs like human beings, they can also breathe through their skin, which is moist and slippery.
49.	France conferred the Chevalier de l'Ordre National du Mérite (Knight in the National Order of Merit) to film-maker and elephant researcher Prajna Chowta "in recognition of a life devoted to caring for wild Asian elephants". It is one of the highest civilian recognitions of the French Government. Ms. Chowta is the founder of Aane Mane Foundation , which for the past 16 years has been researching and conserving wild Asian elephants.	64.	The fishing cat is listed as Endangered on the IUCN Red List, which means that it faces a high threat of extinction in the wild. The Convention on International Trade in Endangered Species (CITES) lists the fishing cat on Appendix II part of Article IV of CITES, which governs international trade in this species. In India, the fishing cat is included in Schedule I of the Indian Wildlife (Protection) Act, 1972 and thereby protected from hunting.
51.	The velocity of sound in hydrogen is greater than that in oxygen because hydrogen is a lighter gas. Sound waves of different frequencies travel with same speed in air.	65.	A shadow is formed where light is 'missing'. A dark shadow (umbra) is formed where no light falls and a light shadow (penumbra) is formed where some light falls, but some is blocked.
52.	Magnetic resonance imaging (MRI) uses the body's natural magnetic properties to produce detailed images from any part of the body. For imaging purposes the hydrogen nucleus (a single proton) is used because of its abundance in water and fat.	66.	Phloem is made up of four types of elements: sieve tubes, companion cells, phloem fibres and the phloem parenchyma. Xylem consists of tracheids, vessels, xylem parenchyma.
58.	The size of the pupil of the automatically adjusts itself according to the intensity of light passing through it; if the intensity is more, the size is less, if less, it is more. So in our case the pupil should dilate (i.e) increase in size to be able to see in the dark. This switchover takes some time. But here the entry into the dark room is immediate. So the eye has no time to adjust itself and hence is not able to see at all for a while.	68.	It is first-of-its-kind Cybersecurity Centre in India and overall 7th in the world including in Tokyo, Seoul, Beijing, Singapore, Berlin and Washington DC.
61.	Polished surfaces are poor radiators of heat. So loss of heat on that account is reduced and the electric iron remains hotter than otherwise.	69.	A phenomenon called Rayleigh scattering causes light from the Sun to bounce off tiny particles in the atmosphere and scatter in different directions. Sunlight consists of many different colours: from red, which has the longest wavelength of all visible light, through to violet at the blue end of the spectrum, which has the shortest wavelength. Due to this short wavelength, blue light is scattered more effectively than other colours, and this is why the sky
62.	Ambergris is formed in the intestines of the sperm whale in response, it is thought, to irritation caused to the stomach lining of the whale from the sharp,		

	<p>normally appears blue to us.</p> <p>At sunrise or sunset, however, when the Sun is low on the horizon, the light rays must pass through more of the atmosphere – and therefore bounce off more molecules – than at other times of day. This means that more blue light gets scattered away before the light reaches your eyes. Other colours – such as red, orange and yellow – can therefore continue to pass through the atmosphere unaffected, creating beautiful colours at the start and end of the day.</p>		<p>absence, the Deputy Governor who is the Member of the MPC.</p> <p>The MPC takes decisions based on majority vote (by those who are present and voting). In case of a tie, the RBI governor will have the second or casting vote. The decision of the Committee would be binding on the RBI.</p>
70.	The fundamental principle of the Athlete Biological Passport (ABP) is to monitor selected biological variables over time that indirectly reveal the effects of doping rather than attempting to detect the doping substance or method itself.	81.	A geo-stationary satellite is stationary with respect to the earth and in order to be so, it must revolve along with the earth. Since the direction of earth's rotation is from west to east, the same is the case with a geo-stationary satellite.
71.	The best quality iron ore is Magnetic with 72.36% iron followed by Hemititic with 69.94%, Sideritic with 48.20% and Limentic 36.80%.	82.	The aims of the Indian Association included developing a strong public opinion, promoting Hindu-Muslim friendship, establishing contact with masses and generating wider awareness amongst the Indian people. Surendranath Banerjea said that the new association was based on the conception of United India derived from the inspiration of Mazzini.
72.	The Global Gender Gap Report was first published in 2006 by the World Economic Forum. The 2016 report covers 144 major and emerging economies. The Global Gender Gap Index is an index designed to measure gender equality.	84.	Contract theory is a special application of game theory, which is the study of mathematical models of negotiation, conflict and cooperation between individuals, organizations and governments. Central questions of game/contract theory include why an individual makes a particular decision and how the decisions made by one individual affect others.
73.	Hard water contains dissolved compounds, usually calcium or magnesium compounds. The presence of calcium ions and magnesium ions in the water makes it hard. Soft water readily forms lather with soap, but it is more difficult to form lather with hard water. The dissolved calcium ions and magnesium ions in hard water react with the soap to form scum, so more soap is needed. Soap less detergents do not form scum with hard water.	85.	Cats have developed a keen instinct for sensing which way is down, analogous to the mechanism humans use for balance, biologists say. Then - if given enough time - they are able to twist their bodies like a gymnast, astronaut or skydiver and spin their tails in order to position their feet under their bodies and land on them.
76.	MPC has six members - the RBI Governor (Chairperson), the RBI Deputy Governor in charge of monetary policy, one official nominated by the RBI Board and the remaining three members would represent the Government of India.	88.	The Economic Enforcement is economic intelligence and law enforcement agency responsible for enforcing economic laws and fighting economic crime in India. It functions under the aegis of the Department of Revenue, Union Ministry of Finance. The Union Government has appointed Senior IPS officer Karnal Singh as the Director of Enforcement
	The proceedings of MPC are confidential and the quorum for a meeting shall be four Members, at least one of whom shall be the Governor and in his		

Raja Sir's

CRACKING
IAS ACADEMY

Since 2005 — Feel the Pulse of UPSC... **CSAT PAPER 1 - 2017 - TEST - 4**

CrackingIAS.com

	Directorate (ED). Decision in this regard was taken by the Appointments Committee of the Cabinet (ACC) headed by Prime Minister Narendra Modi. He will be in office till 31 August 2017.	98.	Dopamine is a neurotransmitter whose low concentration produces symptoms of Parkinson's disease and over production causes Schizophrenia.
89.	Green muffler scheme involves the growing green plants along roadsides to reduce noise pollution.		
92.	According to the World Meteorological Organization's annual Greenhouse Gas Bulletin, globally averaged concentration of carbon dioxide in the atmosphere reached 400 parts per million for the first time in 2015. It has surged again to new records in 2016 on the back of the very powerful El Niño event.		
96.	Peste des petits ruminants (PPR) - Ovine rinderpest - also known as sheep and goat plague - a highly contagious viral animal disease that causes major losses in regions home to millions of the world's poorest people. The \$996.4 -million plan launched by the Food and Agriculture Organization of the United Nations (FAO) and the World Organization for Animal Health (OIE) in October 2016 is the first phase of what will be a 15-year effort to eradicate PPR by 2030.		

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

“ SOME PEOPLE DREAM OF SUCCESS WHILE OTHERS WAKE UP AND WORK HARD FOR IT ”

+91 988 45 54 654
www.rajasirias.com

9884554654

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Raja Sir's

CRACKING
IAS ACADEMY

Since 2005 — Feel the Pulse of UPSC...

Sail thru GS OCEAN
UPSC cannot
Escape Our Prediction

Joining CrackingIAS for GS - My best choice in Life. Thavaseelan, IAS
Produced AIR < 20 twice, <40 once, & Many more IAS, IPS, IFS.

402 Selections since 2005

CrackingIAS.com

Answers

1. B	11. B	21. d	31. A	41. C	51. C	61. A	71. A	81. D	91. C
2. A	12. A	22. A	32. D	42. D	52. D	62. B	72. A	82. D	92. C
3. D	13. A	23. D	33. B	43. A	53. C	63. D	73. B	83. C	93. A
4. D	14. C	24. A	34. A	44. D	54. D	64. A	74. B	84. A	94. A
5. C	15. B	25. A	35. D	45. D	55. A	65. B	75. B	85. D	95. C
6. D	16. B	26. D	36. B	46. D	56. B	66. B	76. A	86. A	96. D
7. B	17. C	27. D	37. A	47. A	57. B	67. D	77. D	87. D	97. A
8. D	18. A	28. A	38. C	48. A	58. C	68. C	78. A	88. B	98. A
9. C	19. A	29. A	39. A	49. A	59. D	69. D	79. D	89. A	99. B
10. D	20. D	30. C	40. C	50. B	60. B	70. C	80. A	90. B	100. C

Explanations

3.	<ul style="list-style-type: none"> ✓ The office of 'whip', is mentioned neither in the Constitution of India nor in the Rules of the House nor in a Parliamentary Statute. It is based on the conventions of the parliamentary government. ✓ Every political party, whether ruling or Opposition has its own whip in the Parliament. He is appointed by the political party to serve as an assistant floor leader. 	6. ✓ Bio-Digester Toilet System is based on (methanogenic bacteria) anaerobic biodegradation of organic waste by unique microbial consortium. In this system, faecal matter is decomposed to bits and converted into water and little of carbon dioxide & methane gas. It is totally maintenance-free system and does not require any sewerage system.
4.	<ul style="list-style-type: none"> ✓ As part of the Indian government's initiatives to better study and quantify the Himalayan glacier responses towards the climate change, National Centre for Antarctic and Ocean Research (NCAOR), Goa, under the Ministry of Earth Sciences has established a high altitude research station in Himalaya called HIMANSH (literally meaning, a slice of ice), situated above 13,500 ft (> 4000 m) at a remote region in Spiti, Himachal Pradesh. 	8. ✓ The closed fuel cycle, which involves recycling the nuclear waste as new fuel, in the case of the MBIR project, essentially signifies research on a sodium-cooled Generation 4 fast reactor to design an advanced fast neutron reactor for use in nuclear power plants. ✓ A fast neutron reactor, also known simply as a fast reactor, is a type in which the nuclear fission chain reaction is sustained by fast neutrons. Such a reactor needs no neutron moderator like normal water, which serves such a purpose in thermal

	reactors.		
10.	<ul style="list-style-type: none"> ✓ Phenolphthalein is a light white powder and slightly soluble in water. It is colourless in acid and neutral media and pink in alkaline medium. When the currency notes are treated with phenolphthalein powder, it adheres to the surface, hardly visible to the naked eye. The person who has touched the currency notes with phenolphthalein powder dips his fingers in the sodium carbonate solution upon which the colourless solution turns pink. 		<p>modal terminal at Sahibganj is especially significant. It will play an important role in transportation of domestic coal from the local mines to intended thermal power plants owing to its good railway connectivity. Besides coal, stone-chips are also expected to be transported through the terminal.</p> <ul style="list-style-type: none"> ✓ Official Development Assistance (Japan) is an arm of the Ministry of Foreign Affairs (Japan). The goal of the office is to help developing nations with supplies, civil engineering and other assistance. The ODA was started in 1954 after Japan signed the Colombo Plan, which pledges to provide aid to nations who need it.
11.	<ul style="list-style-type: none"> ✓ Few parts of constitution e.g. Article 5, 6, 7, 8, 9, 60, 324 came into force on November 26, 1949 itself. ✓ The Indian independence act, 1947 and Government of India act, 1935 were repealed on 26th January, 1950 with the commencement of the constitution. 	13.	<ul style="list-style-type: none"> ✓ It is a \$500 million dollars initiative launched by World Bank. ✓ It is a market-based scheme designed to help developing countries pay for emission reductions and combat climate change. ✓ Germany, Norway, Sweden and Switzerland have jointly pledged an initial \$250 million to get the Transformative Carbon Asset Facility (TCAF). ✓ The facility will contribute to helping countries implement their emission reduction plans are called Intended Nationally Determined Contributions
12.	<ul style="list-style-type: none"> ✓ Multimodal Terminals with rail and road connectivity are to be constructed at Varanasi, Haldia and Sahibganj. ✓ The Government is developing National Waterway-1 (NW-1) under the Jal Marg Vikas Project, with assistance from the World Bank. NW-1 refers to 1620 km Haldia-Allahabad stretch of River Ganga. ✓ Given Jharkhand's coal reserves of nearly 80 billion tonnes, the location of the multi 		

	(INDCs).		examine complaints of over-inclusion and under-inclusion in the list of OBCs. Pursuant to this direction of SC, the government of India enacted the national commission for backward classes act, 1993 for setting up a national commission for Backward Classes at the centre as a permanent body.
14.	<p>✓ When patients slide into an MRI machine, they take with them the billions of atoms that make up the human body. For the purposes of an MRI scan, we're only concerned with the hydrogen atom, which is abundant since the body is mostly made up of water and fat. These atoms are randomly spinning, or precessing, on their axis, like a child's top. All of the atoms are going in various directions, but when placed in a magnetic field, the atoms line up in the direction of the field. These hydrogen atoms have a strong magnetic moment, which means that in a magnetic field, they line up in the direction of the field.</p>	16.	<p>✓ Israel in Oct 2016 suspended cooperation with UN cultural agency UNESCO, accusing it of denying Judaism's connections to the region and religion's holiest sites.</p>
15.	<p>✓ In Mandal case, 1992 the scope and extent of article 16(4) which provides for reservation of jobs in favour of backward classes, has been examined thoroughly by the Supreme Court. It upheld the constitutional validity of 27% reservation for the OBCs with certain conditions: a) the advanced sections among the OBCs (the creamy layer) should be excluded from the list of beneficiaries of reservation; b) no reservation in promotion; c) A permanent statutory body should be established to</p>	17.	<p>✓ A colour blind boy can't receive a colour blind 'gene' from his father, even if his father is colour blind, because his father can only pass an X chromosome to his daughters.</p> <p>✓ A colour blind daughter therefore must have a father who is colour blind and a mother who is a carrier (who has also passed the faulty 'gene' to her daughter). If her father is not colour blind, a 'carrier' daughter won't be colour blind. A daughter can become a carrier in one of two ways – she can acquire the 'gene' from a carrier mother or from a colour blind father.</p> <p>✓ This is why red/green colour blindness is far more common in men than women.</p>

	<ul style="list-style-type: none"> ✓ Blue-yellow color blindness is a dominant not sex linked trait, which means both men and women are equally affected. 		<p>sub-regional bloc. Its full members are Argentina, Brazil, Paraguay, Uruguay and Venezuela. Its associate countries are Bolivia, Chile, Peru, Colombia, Ecuador and Suriname. Observer countries are New Zealand and Mexico.</p>
19.	<ul style="list-style-type: none"> ✓ Statement 2 is correct. ✓ Article 31A saves five categories of laws from being challenged and invalidated on the ground of contravention of the fundamental rights conferred by Article 14 and Article 19. Article 31B saves the acts and regulations included in the Ninth Schedule from being challenged and invalidated on the ground of contravention of any of the fundamental rights. Article 31C states that no law that seeks to implement the socialistic directive principles specified in Article 39(b) or (c) shall be void on the ground of contravention of the fundamental rights conferred by Article 14 or Article 19. The 42nd Amendment Act, 1976 extended the scope of Article 31C by including within its protection any law to implement any of the directive principles specified in Part IV of the Constitution and not merely in Article 39 (b) or (c). However, this extension was declared as unconstitutional by the Supreme Court in the Minerva Mills case, 1980. Hence, statement 1 is incorrect. 	21.	<ul style="list-style-type: none"> ✓ Asparagus is a young tender stem vegetable, erupting from its underground root-system.
		22.	<ul style="list-style-type: none"> ✓ iPSCs are originally adult cells. Induced pluripotent stem cells (iPSCs) are adult cells that have been genetically reprogrammed to an embryonic stem cell-like state by being forced to express genes and factors important for maintaining the defining properties of embryonic stem cells. Tissues derived from iPSCs will be a nearly identical match to the cell donor and thus probably avoid rejection by the immune system.
20.	<ul style="list-style-type: none"> ✓ Mercosur (Southern Common Market) is a 	23.	<ul style="list-style-type: none"> ✓ The Wild Ass Sanctuary of the Little Rann of Kutch, spreading across nearly 5000 square kilometers of the Little Rann, is the only place on the earth where the endangered Indian Wild Ass (<i>Equus hemionus khur</i>), known locally as the ghudkhar, still lives. The only other two sub-species of wild ass live in the high arid plateaus of Tibet, making this the most accessible place to visit wild ass in their

	natural environs.		
24.	<ul style="list-style-type: none"> ✓ Improving the quality of life in tribal areas ✓ Improving the quality of education ✓ Qualitative and sustainable employment for tribal families ✓ Bridging infrastructure gaps with focus on quality ✓ Protection of tribal culture and heritage ✓ http://pib.nic.in/newsite/PrintRelease.aspx?relid=151962 		<p>play a crucial role in fighting malnutrition in tribal-dominated Chhattisgarh where nearly seven lakh children are still malnourished.</p> <ul style="list-style-type: none"> ✓ Above 300 enzymes in human body use zinc. Human body needs small amount of Zinc but its deficiency results in: Growth retardation, Diarrhoea, Eye and skin lesions, Loss of appetite. ✓ Zinc is important for protecting, synthesizing, and regenerating DNA; in wound healing; and several other activities.
25.	<ul style="list-style-type: none"> ✓ Most commercially available antacids are combinations of aluminum and magnesium hydroxide. Some effervescent antacids contain sodium bicarbonate, that old household remedy for tummy aches known as “baking soda.” 	30.	<ul style="list-style-type: none"> ✓ All three have cell walls. Plants and blue-green algae are well known to possess cell wall. Bacteria also have cell walls. Gram-positive bacteria possess a thick cell wall containing many layers of peptidoglycan and teichoic acids. In contrast, Gram-negative bacteria have a relatively thin cell wall consisting of a few layers of peptidoglycan surrounded by a second lipid membrane containing lipo-polysaccharides and lipoproteins.
26.	<ul style="list-style-type: none"> ✓ Swine flu is transmitted from person to person by inhalation or ingestion of droplets containing virus from people sneezing or coughing; it is not transmitted by eating cooked pork products or shaking hands with an infected person. 	31.	<ul style="list-style-type: none"> ✓ The collegium system was created by two judgements of the Supreme Court in 1990s in which a body of senior apex court judges headed by the Chief Justice of India selected persons and recommended their names for appointment as judges.
27.	<ul style="list-style-type: none"> ✓ Dr Ambedkar emphasised on importance of new waterways policy to lay foundation for a regime of prosperity for millions of poor of India. 	32.	<ul style="list-style-type: none"> ✓ National Environmental and Engineering
28.	<ul style="list-style-type: none"> ✓ Scientists here have developed a high zinc-enriched variety of rice that is expected to 		

	Research Institute (Neeri) and CSIR has developed 'Neerdhur', a novel multi-fuel domestic cooking stove.	36.	✓ The mission focuses on sustainable utilization of renewable biological resources for food, bio-based products and bio-energy through knowledge-based approaches.
33.	✓ There are some components of food that are necessary for our body called roughages or dietary fibres. Roughages are a kind of carbohydrate that our body fails to digest. They help in free bowel movement in the digestive tract and prevent constipation.	37.	✓ Taxol is used for the treatment of breast, ovarian, lung, bladder, prostate, melanoma, esophageal, as well as other types of solid tumor cancers. A species of Himalayan yew tree (Pacific yew tree - <i>Taxus brevifolia</i>) that is used to produce Taxol, a chemotherapy drug to treat cancer, is being pushed to the brink of extinction by over-harvesting for medicinal use and collection for fuel.
34.	✓ Both A and R are true and R is the correct explanation of A. TV transmission satellite is in a geostationary orbit. Geostationary orbits can only be accomplished with equatorial orbits, and since India is in the northern hemisphere this means the satellite will always be in south direction. Very few communication satellites use polar orbits, or any orbit inclined out of the equatorial plane for that matter, to prevent the need for constant reaming of the receiver dish.	38.	✓ In a used oil bacteria feeds on food particles left in the oil. These often lead to the growth of <i>Clostridium botulinum</i> , which causes botulism, a potentially fatal food poisoning. Used oil contains free radicals, molecules that can damage cells and lead to increased cancer risk, as well as affect the quality of your food.
35.	<ul style="list-style-type: none"> ✓ The Petroleum and Explosives Safety Organisation comes under the Ministry of Commerce and Industry. ✓ Its headquarters is situated in Nagpur. ✓ The Petroleum and Explosives Safety Organisation (PESO) is responsible for administering fireworks-related rules and regulations. 	39.	✓ The Tragedy of the Commons is a problem that occurs when individuals exploit a shared resource to the extent that demand overwhelms supply and the resource becomes unavailable to some or all. – Garret Hardin, an evolutionary biologist,

	<p>wrote "The Tragedy of the Commons," which was published in the journal 'Science' in 1968.</p> <p>✓ Hardin's main concern was overpopulation. He used the example of commonly-used grazing land. According to Hardin, the land could provide adequately as long as the number of herders grazing cattle on it was kept in check, through natural population control mechanisms, such as war and disease.</p> <p>✓ Deep Ecology is an ecological and environmental philosophy promoting the inherent worth of living beings regardless of their instrumental utility to human needs, plus a radical restructuring of modern human societies in accordance with such idea.</p>		<p>✓ A 3rd group of developing countries, which include India, Pakistan, Iran, Iraq and Arab Gulf states, must begin the process in 2028 and reduce emissions by 10 percent by 2032 from 2024-2026 levels, and then by 85 percent by 2047.</p>
		41.	<p>✓ An earthen pot has been chosen as the logo for the Ecomark scheme in India. The familiar earthen pot uses a renewable resource like earth, does not produce hazardous waste and consumes little energy in making.</p>
		42.	<p>✓ Viability Gap Funding or Grant means a grant one-time or deferred, provided with the objective of making a project commercially viable. The common PPP Projects eligible for VGF are from the sectors: (i) Roads and bridges, railways, seaports, airports, inland waterways; (ii) Power; (iii) Urban transport, water supply, sewerage, solid waste management and other physical infrastructure in urban areas; (iv) Infrastructure projects in Special Economic Zones; and (v) International convention centres and other tourism infrastructure projects;</p>
40.	<p>✓ A 1st group Developed countries must reduce their use of HFCs by 10 percent by 2019 from 2011-2013 levels, and then by 85 percent by 2036.</p> <p>✓ A 2nd group of developing countries, including China and African nations, are committed to launching the transition in 2024. A reduction of 10 percent compared with 2020-2022 levels should be achieved by 2029, to be extended to 80 percent by 2045.</p>		<p>43. ✓ He For She is a solidarity movement for gender equality that brings together one half of humanity in support of the other</p>

	<p>half of humanity, for the benefit of all. The He for She movement is started by UN Women- the UN organization dedicated to gender equality and the empowerment of women. A global champion for women and girls, UN Women was established to accelerate progress on meeting their needs worldwide.</p>	<p>compilation of National Accounts; conduct of Annual Survey of Industries and Economic Censuses, compilation of Index of Industrial Production, as well as Consumer Price Indices.</p>
44.	<p>✓ The idea of starting a bad bank by the government was recently proposed in the Economic Survey presented in January under the name 'Centralized Public Sector Asset Rehabilitation Agency' (PARA) that could take charge of the largest, most difficult cases, of non-performing assets (NPAs) in the banking system. The need for a government-owned bad bank has been felt for some time as the commercial banks are finding it difficult to deal with NPAs or bad loans.</p>	<p>47. ✓ Reserve Bank of India (RBI) has been caught in the 'impossible trinity' trilemma where it has to tackle three concerns all at once — free capital flows, stable exchange rate, and independent monetary policy.</p> <p>✓ The trilemma propped up in the context of the Mundell-Fleming Model developed in the 1960s which analysed the effectiveness of monetary policy in an open economy (free capital movement) under different exchange rate regimes.</p> <p>✓ A central bank may find it difficult to pursue all three targets at the same time and has to pick any two.</p>
45.	<p>✓ No South Asian country will allow its territory to be used against the interest of another country of the region.</p>	<p>49. ✓ Between 26 October 1962 to 10 January 1968 during the India-China war — "the security of India" having been declared "threatened by external aggression".</p> <p>✓ Between 3 December 1971 to 21 March 1977 originally proclaimed during the Indo Pakistan war, and later extended along with the third proclamation — "the security of India" having been declared "threatened by external aggression".</p>
46.	<p>✓ The Central Statistical Office which is one of the two wings of the National Statistical Organization (NSO) is responsible for coordination of statistical activities in the country and for evolving and maintaining statistical standards. Its activities include</p>	

	<ul style="list-style-type: none"> ✓ Between 25 June 1975 to 21 March 1977 under controversial circumstances of political instability under Indira Gandhi's prime ministership — "the security of India" having been declared "threatened by internal disturbances". ✓ During National Emergency, Article 19 is automatically suspended. However, the other rights are not suspended. Only the enforcement of all other rights mentioned in the Presidential Order for suspension (except 20 and 21 are suspended) Enforcement of Article 20 and 21 can never be suspended. 		<p>size of constituencies, with the largest having over three million electors, and the smallest less than 50,000.</p>
50.	<ul style="list-style-type: none"> ✓ Jammu and Kashmir High Court banned the sale, purchase and plantation of female Russian poplars (<i>Populus deltoides</i>) following a public outcry and medical warnings that their cotton shedding laden with pollen, during late spring was the main cause of allergies in Srinagar. 	52.	<ul style="list-style-type: none"> ✓ Recently Vice-President of India formally recognised a group of 22 MPs belonging to parties with less than four MPs and certain independents as a consolidated block — the United Group in Rajya sabha.
51.	<ul style="list-style-type: none"> ✓ Delimitation commission is established by parliament via the Delimitation Commission Act. The government had suspended delimitation in 1976 until after the 2001 census so that states' family planning programs would not affect their political representation in the Lok Sabha. This had led to wide discrepancies in the 	53.	<ul style="list-style-type: none"> ✓ TADF is a new scheme to facilitate acquisition of Clean, Green & Energy Efficient Technologies, in form of Technology / Customized Products / Specialized Services / Patents / Industrial Design available in the market available in India or globally, by Micro, Small & Medium Enterprises (MSMEs).
		54.	<ul style="list-style-type: none"> ✓ If any wild animal poses danger to human life or property (including standing crops on any land), or is so disabled or diseased as to be beyond recovery, the law allows for its killing. ✓ Using these provisions, any animal listed in Schedule I-IV of the Wildlife (Protection) Act 1972 can be put in Schedule V for a specific period, declaring it as vermin, allowing its killing. Schedule V includes animals like the common crow, fruit bats, mice and rats. ✓ Environment ministry has allowed

	Himachal Pradesh to declare Rhesus Macaque as Vermin. Therefore, all statements are correct.		type depression which runs parallel to mountains. These depressions get accumulated with unconsolidated deposits known as molasses basin.
55.	<ul style="list-style-type: none"> ✓ RBI as Monetary Authority of India ✓ RBI as Issuer of Currency ✓ RBI as Banker and Debt Manager to the Government ✓ Ways and Means Advances ✓ RBI as Banker of Banks ✓ RBI as a regulator and supervisor of financial system ✓ Management of foreign exchange reserves ✓ Developmental & Promotional roles. 	59.	<ul style="list-style-type: none"> ✓ Apart from launching the remote sensing satellites to Sun-synchronous Polar Orbits, the PSLV is also used to launch the satellites of lower lift-off mass of up to about 1400 Kg to the elliptical Geosynchronous Transfer Orbit (GTO). ✓ PSLV is a four-staged launch vehicle, with first and third stages using solid rocket motors, and second and fourth stages using liquid rocket engines. ✓ GSLV, in general, is a three-staged vehicle with first stages using solid rocket motor, second stage using liquid fuel and the third stage, called Cryogenic Upper Stage, using cryogenic engine.
57.	<ul style="list-style-type: none"> ✓ The Council is also the apex of 18 regional economic intelligence committees, and is part of the Union Ministry of Finance. It was formed in 1990. Its chief members include the Governor of the Reserve Bank of India (RBI), Chairman of the Securities and Exchange Board of India (SEBI) and the Directors of the Central Bureau of Investigation (CBI), Narcotics Control Bureau (NCB) and the Directorate of Revenue Intelligence. 	60.	<ul style="list-style-type: none"> ✓ Union Finance Ministry on Oct 4, constituted the Public Debt Management Cell. The cell has been created to streamline public borrowing and ensure better cash management with the objective of deepening bond markets. Currently, the overall in charge of the PDMC will be the Joint secretary (Budget) Department of Economic Affairs, Ministry of Finance. ✓ In two years, the PDMC is scheduled to be
58.	<ul style="list-style-type: none"> ✓ Mizoram is known as LAND OF ROLLING MOUNTAINS, (i.e) it has huge number of mountains. Formations of most mountains are accompanied by formation of foreland basin or in simple terms valley 		

<p>upgraded to a statutory Public Debt Management Agency</p> <ul style="list-style-type: none"> ✓ The interim arrangement will permit separation of debt management functions from RBI to PDMA in a seamless and gradual manner without market disruptions ✓ The PDMA will have only advisory functions to avoid conflict with RBI's statutory functions ✓ It will also advise government of India on matters pertaining to investment, capital market operations, administration of interest rates on small savings among others ✓ Middle office of the Budget Division will be subsumed into PDMC with immediate effect ✓ Transition from PDMC to PDMA will be implemented by JIC or Joint Implementation Committee chaired by the Joint Secretary Budget ✓ Other members of the JIC will be from the RBI and the government ✓ According to a circular issued by the ministry, the JIC would operate under the supervision of the Monitoring Group on Cash and Debt Management with Secretary Economic Affairs and D-G, RBI as co-chairpersons. 	<ul style="list-style-type: none"> ✓ PDMC will be staffed by debt managers from the RBI budget division, current Middle Office and other government units ✓ The PDMA seeks to bring India's external borrowings and domestic debt under one roof. <p>62.</p> <ul style="list-style-type: none"> ✓ IPV is produced from wild-type poliovirus strains of each serotype that have been inactivated (killed) with formalin. As an injectable vaccine, it can be administered alone or in combination with other vaccines (e.g., diphtheria, tetanus, pertussis, hepatitis B, and haemophilus influenza). ✓ IPV has been used successfully in the polio eradication programs in a few countries, notably in Scandinavia and the Netherlands, but until recently most countries have used the oral polio vaccine. IPV provides serum immunity to all three types of poliovirus, resulting in protection against paralytic poliomyelitis. Most studies indicate that the degree of mucosal immunity in the intestine is significantly less than that provided by OPV, although this difference may be less pronounced in the pharyngeal mucosal lining. <p>63.</p> <ul style="list-style-type: none"> ✓ The Hindu rate of growth implies lower rate of growth. After the 5th Five Year Plan, India came out of it. Professor
--	--

	Rajkrishna, an Indian economist, coined the term 'Hindu rate of growth' in 1978 to characterize the slow growth and to explain it against the backdrop of socialistic economic policies.		between Plan and non-Plan expenditure be abolished for both the Centre and the states.
64.	<ul style="list-style-type: none"> ✓ The word autophagy originates from Greek words auto, meaning "self", and phagein, meaning "to eat", according to the release put up on the Nobel Prize website. The concept emerged during the 1960s, when researchers first observed that the cell could destroy its own contents by enclosing it in membranes – autophagosomes - for degradation. ✓ Scientists discovered during the 1950s that the cell contained specialised compartments, with enzymes that digest proteins, carbohydrates and lipids. These compartments also helped with degradation of cellular constituents. During the 1970s and 1980s, researchers explained the working of a system used to degrade proteins. ✓ Disruption of the autophagy processes of the cell has been linked to Parkinson's disease, type 2 diabetes and other disorders that appear in the elderly. 	67.	<ul style="list-style-type: none"> ✓ Seychelles government allowed India to build its first Naval Base on the Assumption Island in the Indian Ocean region (IOR) as a joint project between both countries. In this regard, Seychelles government has allocated a plot of land on in its Assumption Island which will help to enhance mutual security along our western seaboard in IOR. India's first Naval Base project has acquired significance following China acquiring its first African naval base in Djibouti (near Horn of Africa) in November 2014.
		69.	<ul style="list-style-type: none"> ✓ Private sector banks are only under RBI supervision. They don't fall under purview of CVC-CAG-RTI.
		70.	<ul style="list-style-type: none"> ✓ Garibi Hatao desh bachao was the theme and slogan of Indira Gandhi's 1971 election bid and later also used by her son Rajiv Gandhi. The slogan proposed anti-poverty programs.
66.	<ul style="list-style-type: none"> ✓ In 2011, an expert committee headed by C Rangarajan had proposed the distinction 	71.	<ul style="list-style-type: none"> ✓ Renewable diesel, often called "Green diesel" or "Second generation diesel," refers to petro-diesel-like fuels derived from biological sources that are chemically not esters and thus distinct from biodiesel.

	<p>Renewable diesel is chemically the same as petro-diesel, but it is made of recently living biomass. Biodiesel is also referred to as FAME (fatty acid methyl ester) or RME (rapeseed methyl ester) in Europe.</p> <p>✓ Biodiesel is produced using a trans-esterification process, “reacting vegetable oils or animal fats catalytically with a short-chained aliphatic alcohol (typically methanol or ethanol).” Glycerol is a by-product of this trans-esterification process.</p>		<p>payment. Thus statement (2) is correct.</p>
73.	<p>✓ Rajpramukh was an administrative title in India which existed from India's independence in 1947 until 1956. Rajpramukhs were the appointed governors of certain of India's provinces and states.</p>	79.	<p>✓ Ptyalin is an enzyme that is part of our saliva and aids with digestion. The main function of ptyalin is to catalyze the hydrolysis of starch into maltose and dextrin. It is a form of amylase. This particular type of amylase is found only in humans.</p>
75.	<p>✓ There can be a fiscal deficit without a revenue deficit (i) when the revenue budget is balanced, but the capital budget shows a deficit, or (ii) when the revenue budget is in surplus but deficit in capital budget is greater than the surplus of revenue budget. Hence statement (1) is wrong.</p> <p>✓ Since the primary deficit equals the fiscal deficit of current year minus interest payments on previous borrowings, therefore the primary deficit shows the borrowing requirements of the government, excluding the interest</p>	80.	<p>✓ It is considered absolutely vital for reaching the Paris Agreement</p> <p>✓ target of keeping global temperature rise to below 2-degree Celsius compared to pre-industrial times.</p>
		81.	<p>✓ Conservation reserves and community reserves in India are terms denoting protected areas of India which typically act as buffer zones to or connectors and migration corridors between established national parks, wildlife sanctuaries and reserved and protected forests of India. Such areas are designated as conservation areas if they are uninhabited and completely owned by the Government of India but used for subsistence by communities and community areas if parts of the lands are privately owned.</p> <p>✓ These protected area categories were first introduced in the Wildlife (Protection) Amendment Act of 2002.</p>

	<ul style="list-style-type: none"> ✓ Both Conservation reserves and Community reserves don't affect the right of people living inside these protected areas. Hence, statement 2 is not correct. Both Conservation reserves and Community reserves are notified by respective state governments. 	<p>Chain is the progression of nuclear fuel through a series of differing stages. It has two parts:</p> <ul style="list-style-type: none"> ✓ Front End: It includes the preparation of the fuel and steps in the service period in which the fuel is used during reactor operation. ✓ Back End: Which includes the steps to safely manage, contain, and either reprocess or dispose of spent nuclear fuel. ✓ When the spent fuel is reprocessed, it is a closed Fuel Cycle. When the spent Fuel is not reprocessed, it is an open fuel Cycle. ✓ India has adopted closed fuel cycle option, which involves reprocessing and recycling of the spent fuel. During reprocessing, only about two to three percent of the spent fuel becomes waste and the rest is recycled. This waste, called high level waste (HLW), is converted into glass through a process, called vitrification. The vitrified waste is stored in a Solid Storage Surveillance Facility for 30-40 years with natural cooling prior to its disposal in a final disposal facility. The need for a final disposal facility will arise only after three to four decades. This will also provide sufficient time for the reduction in the radioactivity of some of the short-lived radioactive species in the
83.	<ul style="list-style-type: none"> ✓ QCI, Quality Council of India is the National Monitoring and Implementation Unit for this Scheme. ✓ The main objective of ZED (Zero Effect, Zero Defect) scheme is to reduce the bad effect of products on environment. While MSME sector plays a big role in the GDP of India, the scheme will help contribute to environment as well. 	
84.	<ul style="list-style-type: none"> ✓ UK surgeons have carried out the world's first robotic operation within the eye, potentially revolutionizing the manner in which vision conditions are treated. 	
85.	<ul style="list-style-type: none"> ✓ State Human Rights Commission was constituted in accordance with the powers conferred on the State under section-21 of the Protection of Human Rights Act, 1993 (Central Act 10 of 1994) the exercise the powers conferred upon and perform the functions assigned to it provided under this Act. 	
86.	<ul style="list-style-type: none"> ✓ The nuclear fuel cycle or Nuclear Fuel 	

	vitrified waste.		resettlement and rehabilitation and prospecting licenses/mining leases for minor minerals; power to prevent alienation of land and restore alienated land; regulate and restrict sale/consumption of liquor; manage village markets, control money lending to STs; and ownership of minor forest produce.
87.	<ul style="list-style-type: none"> ✓ The Indian Bureau of Mines, on behalf of the mines ministry, has developed Mining Surveillance System (MSS), in co-ordination with the Bhaskaracharya Institute for Space Applications and Geo-informatics (BISAG), Gandhinagar, and the Ministry of Electronics and Information Technology (MEITY). ✓ It is a pan-India surveillance network using latest satellite technology, to check illegal mining. 		<ul style="list-style-type: none"> ✓ PESA, 1996 has been enacted for 5th Schedule areas. It includes 10 states.
88.	<ul style="list-style-type: none"> ✓ The Central Government on Tuesday launched the biggest LCDC - Leprosy case detection campaign in the country. 	92.	<ul style="list-style-type: none"> ✓ The Army has completed laying an irrigation pipeline for residents of villages in the Demchok region of Eastern Ladakh despite a face-off last week with Chinese troops over the work.
89.	<ul style="list-style-type: none"> ✓ District Rural Development Agencies (DRDAs) are district level development execution and monitoring agencies created under the Indian Societies Registration Act. 		<ul style="list-style-type: none"> ✓ The irrigation project was being built under the Mahatma Gandhi National Rural Employment Guarantee Scheme to link a village with a "hot spring".
90.	<ul style="list-style-type: none"> ✓ 'Plug & Play' model means winners of the contract can start implementing the project immediately, without worrying about all the regulatory clearances and coal or gas linkages — the biggest causes for so many stalled projects in the country. 		<ul style="list-style-type: none"> ✓ In order to protest the laying of the pipeline, Chinese troops attempted to erect a fibre-reinforced plastic (FRP) hut on the border on Friday. However, the Army and the Indo-Tibetan Border Police (ITBP) did not allow that.
91.	<ul style="list-style-type: none"> ✓ Gram Sabhas or Panchayats at appropriate level shall also have powers to manage minor water bodies; power of mandatory consultation in matters of land acquisition; 		<ul style="list-style-type: none"> ✓ Demchok is the first instance when the Chinese soldiers have come deep inside the Indian Territory to protest against an ongoing construction project.

93.	<ul style="list-style-type: none"> ✓ Under 'Due Process' - the state must respect all of the legal rights that are owed to a person. Judiciary can interpret the laws as per the fundamental principles of a liberal democracy - justice, equality, liberty, fairness, etc. ✓ In Maneka Gandhi vs Union of India, the Supreme Court of India held that the words "procedure established by law" doesn't mean any random procedure laid down by Parliament, but must be interpreted in the lines of the "due process" phrasing in the American Constitution. Procedure which deprives a person of life or personal liberty must be reasonable and just, and must satisfy the ends of Justice and the collective conscience. This is what prevented tyrannical excesses from being committed by the State. 		<p>motion cannot be moved against a single minister or a group of select ministers but ONLY against the entire council of ministers. If no-confidence motion is passed, the CoM will have to resign.</p>
94.	<ul style="list-style-type: none"> ✓ For moving censure motion is that it is needed to state the reasons for its adoption in Lok Sabha. It can be moved against an individual minister as well as the entire council of ministers. The objective is to censure the minister(s) for specific policies or actions. Once passed, it does not affect the fate of Council of Ministers. ✓ For a no confidence motion, there is no need to state the reasons. No-confidence 	95.	<ul style="list-style-type: none"> ✓ The Biotech-KISAN is a Farmer centric scheme launched by of the Department of Biotechnology, where scientists will work in sync with farmers to understand problems and find solutions. ✓ It is developed in consultation with the farmers. Soil, Water, Seed and Market are some key points that concern small and marginal farmers. ✓ Biotech-KISAN aims to link farmers, scientists and science institutions across the country in a network that identifies and helps solve their problems in a cooperative manner. ✓ Biotech KISAN will connect farmers with science in the 15 agro-climatic zones of the country in a manner, which constantly links problems with available solutions.
		96.	<ul style="list-style-type: none"> ✓ FAME India - Faster Adoption and Manufacturing of Hybrid and Electric vehicles in India - is part of the National Electric Mobility Mission Plan.
		97.	<ul style="list-style-type: none"> ✓ Compulsory Provisions ✓ 21 years to be the minimum age for

<p>contesting elections to panchayats.</p> <ul style="list-style-type: none"> ✓ Direct elections to all seats in panchayats at the village, intermediate and district levels. ✓ Establishment of a State Election Commission for conducting elections to the panchayats. ✓ Establishment of panchayats at the village, intermediate and district levels. ✓ Fixing tenure of five years for panchayats at all levels and holding fresh elections within six months in the event of supersession of any panchayat. ✓ Indirect elections to the post of chairperson of panchayats at the intermediate and district levels. ✓ Organization of Gram Sabha in a village or group of villages. ✓ Reservation of one-third seats (both members and chairpersons) for women in panchayats at all the three levels. ✓ Reservation of seats (both members and chairpersons) for SCs and STs in panchayats at all the three levels. ✓ Constitution of a State Finance Commission after every five years to review the financial position of the panchayat. The state legislature (and not the State Legislature) may assign to a panchayat taxes, duties, tolls and fees levied and 	<p>collected by the state government.</p> <p>99. ✓ Right to Choose guarantees individuals the right to personal autonomy, which means that a person's decisions regarding his or her personal life are respected so long as he/she is not a nuisance to the society.</p> <p>✓ The Bihar government issued a notification under the Bihar Excise Act, 1915 banning the manufacture, sale, and distribution, as well as the possession and consumption of alcohol. It also reversed the burden of proof, requiring the accused to prove her innocence to avoid imprisonment. Supreme Court, however, has stayed the operation of the Patna High Court judgment, allowing the continuation of a draconian prohibition law in Bihar.</p> <p>100. ✓ Terahertz radiation which is a band of electromagnetic radiation between microwaves and infrared light. Terahertz radiation can differentiate between ink and blank paper in manner that X-ray or ultrasound does not, offering much better depth resolution</p>
--	---

Raja Sir's

CRACKING
IAS ACADEMY

Since 2005 — Feel the Pulse of UPSC...

CSAT PAPER 1 - 2017 - TEST - 5

CrackingIAS.com

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

“ SOME PEOPLE DREAM OF SUCCESS WHILE OTHERS WAKE UP AND WORK HARD FOR IT ”

+91 988 45 54 654
www.rajasirias.com

9884554654

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Raja Sir's

CRACKING
IAS ACADEMY

Since 2005 — Feel the Pulse of UPSC...

Sail thru GS OCEAN
UPSC cannot
Escape Our Prediction

Joining CrackingIAS for GS - My best choice in Life. Thavaseelan, IAS
Produced AIR < 20 twice, <40 once, & Many more IAS, IPS, IFS.

402 Selections since 2005

CrackingIAS.com

Call: us: 09884554654

Political Science, Sociology, General Studies, Essay & CSAT

IAS Express – a monthly current affairs booklet

18

Answers

1.	B	11.	C	21.	C	31.	D	41.	A	51.	B	61.	D	71.	D	81.	B	91.	A
2.	D	12.	B	22.	C	32.	A	42.	D	52.	C	62.	C	72.	A	82.	D	92.	D
3.	C	13.	A	23.	C	33.	A	43.	A	53.	B	63.	A	73.	B	83.	D	93.	C
4.	A	14.	A	24.	C	34.	C	44.	C	54.	C	64.	C	74.	C	84.	B	94.	A
5.	D	15.	A	25.	C	35.	A	45.	D	55.	C	65.	A	75.	B	85.	C	95.	B
6.	B	16.	C	26.	B	36.	D	46.	C	56.	B	66.	A	76.	B	86.	C	96.	B
7.	B	17.	A	27.	D	37.	C	47.	B	57.	A	67.	D	77.	D	87.	D	97.	B
8.	B	18.	D	28.	D	38.	B	48.	C	58.	C	68.	C	78.	A	88.	D	98.	B
9.	A	19.	B	29.	D	39.	B	49.	D	59.	A	69.	A	79.	✓	89.	B	99.	C
10.	C	20.	C	30.	A	40.	C	50.	D	60.	D	70.	D	80.	C	90.	A	100.	D

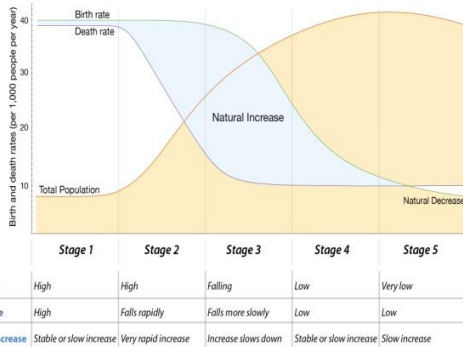
Explanations

1.	<p>✓ In the sedimentary type of cycle major reservoir is the lithosphere, from which the elements are released by weathering.</p> <p>✓ The sedimentary types are best exemplified by Phosphorus, Sulphur, and Iodine cycles. In these cycles a little portion of the supply may get lost, as in the deep ocean sediments, and thereby becomes inaccessible to organisms and to continual cycling.</p>	(UNDP) is implementing a global multi country project on Biodiversity Finance Initiative (BIOFIN), which provides tools and methodological framework for measuring expenditure on biodiversity, which the countries may choose to use in their efforts to mobilise resources required for achieving the global and national biodiversity targets. For the purpose of implementing BIOFIN project, the environment ministry has also identified National Biodiversity Authority as the host organization.
3.	<p>The biggest emitters of HFCs are mobile air conditioning (MAC) systems in cars (66% of all HFC emissions according to 2002 data from US EPA and ADEME); followed by commercial refrigeration, and particularly supermarket refrigeration (23%); and finally stationary air conditioning systems (6%) such as found in retail units and offices. HFC is a potent greenhouse gas. US is desperate to bring HFC under ambit of Montreal protocol despite of the fact that it has no implications for Ozone layer. India is pushing for its inclusion under framework to be agreed at Paris conference, which will be more stringent selectively for developed countries (unlike Montreal protocol).</p>	5. El Nino Modoki has recently been identified as a coupled ocean-atmosphere phenomenon in the tropical Pacific Ocean and has been shown to be quite different from the canonical El Nino/Southern Oscillation (ENSO) in terms of its spatial and temporal characteristics as well as its teleconnection patterns.
4.	The United Nations Development Programme	7. ✓ BirdLife International is the world's largest nature conservation Partnership. Together we are 119 BirdLife Partners worldwide - one per country or territory. Each Partner is an independent not-for profit, non-governmental organization or NGO. Most Partners are best known outside of the Partnership by their organization's name. This allows each Partner to maintain its individual

<p>national identity within the global Partnership. BirdLife Partners work together in a collaborative, coordinated fashion across national boundaries to build a global Partnership of national conservation organizations.</p> <ul style="list-style-type: none"> ✓ The BirdLife partnership has 6 Regional BirdLife Coordination Offices throughout the world and a Global Office in Cambridge, UK - together known as —The BirdLife International Secretariat. The Secretariat co-ordinate and facilitate the BirdLife International strategies, programmes and policies. ✓ Bombay Natural History Society is the Partner of BirdLife International in India. 	<p>World Economic Forum (WEF) on the basis of their ability to deliver secure, affordable and sustainable energy. The list is topped by Switzerland followed by Norway, Sweden, Austria, Denmark, etc.</p>
<p>9. The 'evil quartet', or 'four horsemen of the ecological apocalypse', was probably the first treatment of extinction dynamics as a biological discipline in its own right. Jarod Diamond (1984) took a sweeping historical and contemporary view of extinction, then simplified the problem to four principal mechanisms:</p> <ul style="list-style-type: none"> ✓ overhunting (or overexploitation), ✓ introduced species, ✓ habitat destruction and ✓ chains of linked extinctions (trophic cascades, or co-extinctions). 	<p>22. Energy enters the biological system as light energy, or photons, is transformed into chemical energy in organic molecules by cellular processes including photosynthesis and respiration, and ultimately is converted to heat energy. This energy is dissipated, meaning it is lost to the system as heat; once it is lost it cannot be recycled. Without the continued input of solar energy, biological systems would quickly shut down. Thus the earth is an open system with respect to energy.</p>
<p>17. Himachal Pradesh- 40 Madhya Pradesh - 34 Andaman and Nicobar Islands - 105</p>	<p>28. ✓ The most harmful components of smog are ground-level ozone and fine airborne particles.</p> <ul style="list-style-type: none"> ✓ Smog is caused by heavy traffic, high temperatures, sunshine and calm winds. These are few of the factors behind increasing level of air pollution in atmosphere. ✓ During the winter months when the wind speeds are low, it helps the smoke and fog to become stagnate at a place forming smog and increasing pollution levels near the ground closer to where people are respiring. It hampers visibility and disturbs the environment.
<p>18. India has been ranked at the 90th place in a list of 126 countries in the latest Global Energy Architecture Performance Index Report compiled by</p>	<ul style="list-style-type: none"> ✓ Smog is formed by reaction of Volatile organic compounds (VOC) with nitrogen oxides in the presence of sunlight. One of the primary constituent of smog is ozone gas which is formed by the reaction of Volatile organic compounds with nitrogen oxides. Health impact of smog:

	Heavy smog results in decrease in natural vitamin D production leading to rise in cases of Rickets.		1972. There are 4 categories of the Protected Areas viz, National Parks, Sanctuaries, Conservation Reserves and Community Reserves. Ecosensitive Zones are areas around national parks and sanctuaries which are not part of Protected Areas.
29.	“Brent” actually refers to oil from four different fields in the North Sea: Brent, Forties, Oseberg and Ekofisk. Crude from this region is light and sweet, making them ideal for the refining of diesel fuel, gasoline and other high-demand products. And because the supply is water-borne, it's easy to transport to a distant locations. Brent is the reference for about two-thirds of the oil traded around the world.		33. Tropical rainforests contain the greatest biodiversity in the world. Tropical forests occur near the equator where temperatures are warm year-round. The tropical rain forest, can receive as much as 350 centimeters of rainfall yearly.
30.	Why massive detector and underground laboratory? A question can be risen on the relevance of massive detector and underground laboratory. The reason is that interact of neutrinos is very weak with the surroundings. Even, a stream of neutrinos is being passed through our body every passing minute without leaving a trace. Hence, due to weak interact of neutrinos, it is impossible to detect them. Therefore, a barrier of at least 1 KM is required to block out other radiation and particles, such as muons from cosmic rays (The Hindu, 2015). To overcome this challenge, a tunnel will be constructed at a depth of 1,300 meters below the peak and which is 2 km by 7.5m by 7.5m. This will lead to a chamber that will house the detector. (The Hindu, 2015). In this depth, laboratory will be able to keep itself away from all the trillions of neutrinos produced in the atmosphere which otherwise can choke an over-the-ground detector.		35. Environmental Impact Assessment (EIA) is an important management tool for ensuring optimal use of natural resources for sustainable development. ✓ To facilitate collection of environmental data and preparation of management plans, guidelines have been evolved and circulated to the concerned Central and State Government Departments. ✓ EIA has now been made mandatory under the Environmental (Protection Act, 1986) for 29 categories of developmental activities involving investments of Rs. 50 crores and above.
			36. Radio Transmission is possible due to Ionosphere.
			37. CO is so toxic because it has 250 times greater affinity for the iron atom in hemoglobin than does oxygen - it displaces oxygen; so less oxygen reaches the heart.
31.	✓ The PAs are constituted and governed under the provisions of the Wild Life (Protection) Act,		38. ✓ Red panda - a rare tree dwelling mammal found in the deciduous broad leaf and coniferous forests of the Eastern Himalayas. The species has been extensively hunted for its pelt - used in traditional

	<p>hats and clothing across the border in China. As such the presence of this characterful species in the Eastern Himalayas is threatened.</p> <p>✓ It is a Schedule - I animal, according to wildlife (Protection) act, 1972 and is also the State animal of Sikkim.</p>	<ul style="list-style-type: none"> • As far as possible those sites may be considered for BHS which are not covered under Protected Area network under the Wildlife Protection Act 1972. Hence 3rd statement is incorrect. • 'Glory of Allapalli', a dense forest patch in Naxal-affected Gadchiroli district, has been notified as first biodiversity heritage site in Maharashtra under the Biological Diversity Act, 2002, that empowers state government to notify areas of biodiversity importance as biodiversity heritage sites (BHS) in consultation with local bodies.
41.	<p>The biofertilizers used for rice crop are Azospirillum, Phosphobacteria, Blue green algae azolla and Mycorrhiza.</p>	<p>44. As of January 2016, there are 48 Tiger Reserves in India. Corbett National Park was the first national park of India to be covered under Project Tiger on April 1st, 1973. Nagarjunsagar-Srisailem is the largest tiger reserve in terms of Area, while currently, Bor Tiger Reserve in Maharashtra is smallest in area. Manas (Assam) , Similipal (Orissa), Sunderbans (West Bengal) are Biospheres having Tiger reserves. Manas Tiger Reserve is the only tiger reserve which is also a World Heritage Site. After Reorganization of Andhra Pradesh, the Nagarjunsagar-Srisailem Tiger Reserve is to be divided among the two states and the Telanaga Part is to be known as Amrabad Tiger Reserve as India's 45th Tiger Reserve.</p>
43.	<ul style="list-style-type: none"> • Biodiversity Heritage Sites (BHS) are well defined areas that are unique ecologically fragile ecosystems terrestrial, freshwater or marine having rich biodiversity comprising of any one or more of the components such as; species richness, high endemism, presence of rare, endemic and threatened species, keystone species, species of evolutionary significance, wild ancestors of domestic/cultivated species or land races or their varieties, past pre-eminence of biological components represented by fossil beds and having cultural or aesthetic values and are important for the maintenance of cultural diversity, with or without a long history of human association with them. (Source: NBA, India) Hence 1st statement is correct. • Under Section 37 of Biological Diversity Act, 2002 (BDA), the State Government in consultation with local bodies may notify in the official gazette, areas of biodiversity importance as Biodiversity Heritage Sites (BHS). Hence 2nd statement is correct. 	<p>45. 4-methylimidazol, also known as 4-MEI, is an organic chemical compound that is formed through the browning of certain foods .</p>
		<p>46.</p>



48. An increase in concentration of CO₂ impacts climate both directly through its radiative effect (due to trapping of long wave radiation) and indirectly through its physiological effect (reducing transpiration in land plants). This evapo-transpiration leads to release of water into the atmosphere and produces a cooling effect. If it is reduced it will reduce the evaporative cooling effect of plants and thus contribute to global warming.

49. The NGT adjudicates on matters for following acts:
Water Pollution Act 1974.
Forest Conservation Act 1980
Air Pollution Act 1981
Environment Act 1986
Public Liability Insurance Act 1991
Biological Diversity act 2002

52. ✓ Biodiversity hot spot was put forth by Norman Myres in 1988. To qualify as a hot spot, a region must meet two strict criteria:
✓ Species endemism - It must contain at least 1,500 species of vascular plants (>0.5% of the world's

total) as endemics, and

✓ Degree of threat - It has to have lost 70% of its original habitat.

53. PSC-Type I clouds are now known as sites of harmful destruction of stratospheric ozone over the Antarctic and Arctic. Their surfaces act as catalysts which convert more benign forms of man-made chlorine into active free radicals (for example ClO, chlorine monoxide). During the return of spring sunlight these radicals destroy many ozone molecules in a series of chain reactions. Cloud formation is doubly harmful because it also removes gaseous nitric acid from the stratosphere which would otherwise combine with ClO to form less reactive forms of chlorine. Hence, only statement 2 is correct.

55. The Dzuko valley is also the only habitat of the endemic and the rare species—Dzuko Lily (*Lilium chitrangade*).

57. ✓ The largest reservoir of Earth's oxygen is within the silicate and oxide minerals of the crust and mantle (99.5%).
✓ Only a small portion has been released as free oxygen to the biosphere (0.01%) and atmosphere (0.36%). The main source of atmospheric free oxygen is photosynthesis.

60. ✓ According to Thomas Malthus, **PREVENTATIVE CHECKS** are those that affect the birth rate and include marrying at a later age (moral restraint), abstaining from procreation, birth control, and homosexuality. Malthus, a religious chap (he worked as a clergyman in the

	<p>Church of England), considered birth control and homosexuality to be vices and inappropriate (but nonetheless practiced).</p> <p>✓ POSITIVE CHECKS are those, according to Thomas Malthus, that increase the death rate. These include disease, war, disaster, and finally, when other checks don't reduce population, famine. Malthus felt that the fear of famine or the development of famine was also a major impetus to reduce the birth rate. He indicates that potential parents are less likely to have children when they know that their children are likely to starve.</p>
<p>61. ✓ The UV region covers the wavelength range 100-400 nm and is divided into three bands:</p> <ol style="list-style-type: none"> 1. UVA (315-400 nm) 2. UVB (280-315 nm) 3. UVC (100-280 nm) <p>✓ As sunlight passes through the atmosphere, all UVC and approximately 90% of UVB radiation is absorbed by ozone, water vapour, oxygen and carbon dioxide. UVA radiation is less affected by the atmosphere.</p> <p>✓ Therefore, the UV radiation reaching the Earth's surface is largely composed of UVA with a small UVB component.</p>	<p>no longer effective. The farmer then has no option but to use the pesticides year after year in each agricultural cycle.</p> <p>63. Ferns were a common component of coal-forming ecosystems from the Carboniferous and Permian periods, just as in many environments.</p> <p>67. Azotobactor, Clostridium, Rhizobium (Root nodules bacteria). Various blue green algae like Oscillatoria, Anabaena and Nostoc increase the soil fertility by fixing atmospheric nitrogen.</p> <p>68. ✓ Pteris vittata is a hyperaccumulator of arsenic. It has been praised for its potential to remediate soils contaminated with arsenic. Even though it has the beneficial quality of being a natural bioaccumulator, it is still considered an invasive plant and should be managed as such.</p>
<p>62. ✓ The pesticide treadmill is a term indicating a situation in which it becomes necessary for a farmer to continue using pesticides regularly because they have become an indispensable part of an agricultural cycle.</p> <p>✓ This can occur if pesticides are used on crops or animal herds such that other natural remedies are</p>	<p>69.</p> <ul style="list-style-type: none"> • Rare Himalayan griffon is also known as Himalayan vulture. • The Himalayan griffon was previously believed to belong to the upper Himalayas and was presumed to stray till the Gangetic plains at the most. • In recent years there were sightings in Kerala, Karnataka, Andhra Pradesh, Goa, etc. • Such long-distance straying from home territory also points towards a lack of navigational experience in immature birds. All individuals of the species previously reported as sighted from south India, including the one spotted in Goa, are the immature ones. • Himalayan griffons do not breed in the first three

	years, and hence juvenile birds of the species do not remain in breeding grounds to avoid competition.		the southern parts of the Loktak Lake (Ramsar Site), which is the largest freshwater lake in Eastern India.
70.	Ground-level ozone is formed when oxides of nitrogen (NOX) and a range of volatile gases - primarily from vehicles and other sources - are exposed to each other in sunlight. While ozone levels have increased steadily with the onset of summer, it doubled up very quickly in most locations as soon as the heat wave hit Delhi in the first week of May.		<ul style="list-style-type: none"> • Sangai is also the state animal of Manipur. • The Manipuri Brow-antlered Deer or 'sangai' or 'dancing deer', a critically endangered species of deer, lives in a unique floating habitat is facing a threat of extinction as the floating biomass (or 'phumdis') on which it walks has been steadily decreasing in buoyancy and thickness over the last few years. As a result, Sangai face death from drowning as the phumdis may not be able to support its weight. This has also restricted the mobility of the species, leading to inbreeding.
71.	Ecosystems for Life: A Bangladesh-India Initiative is a civil society led multi-stakeholder dialogue process to promote better understanding of the management of natural resources in Bangladesh and India. Ecosystems for Life is being implemented in Bangladesh and India by IUCN Country Offices and managed by the IUCN Asia Regional Office. It aims at conservation of flagship species.	78.	Health effects of Bromate: <ol style="list-style-type: none"> 1. Children: High level of bromate consumption in children or even exposure to high levels of brominated compound in flame retardants can make suffer from development issues. 2. Bromism: There is even a term for mental dysfunction when overexposed to bromine. It was found that a patient of bromism, someone who consumed large amount of soda that had bromate, suffered from fatigue, headache, memory trouble, and loss of muscle control. 3. Kidney: Potassium bromate is a kidney toxin that is known to kill human embryonic kidney cells in tests. To keep your kidney in good health, keep away from those white baked beauties. 4. Hearing impairment: When tested on animals it has been found that potassium bromate creates serious hearing imbalance within the inner ear. It
74.	These 12 chemicals include 8 pesticides (Aldrin, Chlordane, DDT, Dieldrin, Endrin, Heptachlor, Mirex and Toxaphene), two industrial chemicals (Polychlorinated biphenyls and hexachlorobenzene) and 2 unintended by products- dioxins and furans.		
75.	Carbon monoxide is not a persistent pollutant. Natural processes can convert carbon monoxide to other compounds that are not harmful.		
77.	<ul style="list-style-type: none"> • The Sangai Deer is an endemic, rare and endangered Brow-antlered deer found only in Manipur, India. It lives in the marshy wetland in Keibul Lamjao in Imphal. Its habitat is located in 		

<p>can also lead to complete hearing loss in humans.</p> <p>5. Thyroid: The functioning of thyroid gets imbalanced due to bromate and can lead to aggravation of hypothyroidism or hyperthyroidism.</p> <p>6. Cancer: Various researches have concluded that potassium bromate is a genotoxic carcinogen which does the worst of damage in cancer.</p>	<p>important cause of acid rain.</p> <p>✓ Decaying of vegetation also leads to release of sulphur dioxide and nitric oxide.</p> <p>✓ Pulp or paper industry is one of the important sources of hydrogen sulphide which is a cause of acid rain.</p> <p>✓ Lightning is the natural source of nitrogen oxides.</p> <p>✓ Decontamination of swimming pools is done using chlorine which is released in the atmosphere and is one of the components of acid rain.</p>
<p>82. Following the law of conservation of energy which states that energy can neither be created nor destroyed but is always conserved, pyramids of energy can never be inverted as can be found with pyramids of numbers or of biomass.</p>	<p>89. Bio-magnification refers to the is the INCREASE in concentration of the Persistent organic Pollutants - POPs such as DDT, that occurs in a food chain as a consequence of persistence, high lipid solubility and low water solubility. The substances become more and more concentrated in tissues or internal organs as they move up the chain. Some compounds are neither recycled by decomposers nor are they released into the atmosphere. Instead, they remain in the ecosystem in virtually unchanged form as they are passed from one organism to another by predation. For example, if a large fish consumes five small ones every day for several years, some of the compounds in their flesh is transferred to the larger fish. Over time, the larger fish accumulates these compounds. An example is the pesticide DDT - its toxic effects may not be apparent in the little fish but accumulation in the larger fish allows the effects to be magnified. Hence, the term bio-magnification.</p>
<p>86. Aerosols have a cooling effect on Earth's climate when they scatter solar radiation because some of the scattered light is reflected back into space. Major volcanic eruptions that inject large quantities of aerosols into the stratosphere, such as that of Mt. Pinatubo in 1991, can noticeably reduce average global surface temperatures for some time afterward.</p>	<p>90. If air is very badly polluted with sulphur dioxide</p>
<p>87. Refuse Derived Fuel (RDF) is produced from combustible components of municipal solid waste (MSW). The waste is shredded, dried and baled and then burned to produce electricity, thereby making good use of waste that otherwise might have ended up in landfill.</p>	
<p>88. ✓ Three main compounds that cause acidification of the rain are sulphur compounds and radicals, nitrogen compounds and radicals and chlorine compounds and hydrochloric acid.</p> <p>✓ Volcanic eruption results in emission of gases like sulphur dioxide and nitric oxide, which are</p>	

	there may be no lichens present, just green algae may be found. If the air is clean, shrubby, hairy and leafy lichens become abundant.		
91.	<p>The WLPA provides for several categories of Protected Areas/Reserves:</p> <ul style="list-style-type: none"> • National Parks • Wildlife Sanctuaries • Tiger Reserves • Conservation Reserves • Community Reserves and • o Biosphere reserves are setup under the Man and Biosphere Programme of UNESCO 	98.	<p>All the options given above are included under Climate engineering, also referred to as geoengineering. It is the deliberate and large-scale intervention in the Earth's climatic system with the aim of reducing global warming:</p> <ul style="list-style-type: none"> ✓ Use of giant mirrors in space to reflect the sunlight so as to reduce the warming of earth. ✓ Aerosols in space also reflect the incoming sunlight and thus reduce the warming of earth. ✓ Biochar is essentially charcoal made through pyrolysis of biomass and then burying it mixed with the soil. With regard to long-term carbon storage potential, biochar can work on a large scale with, in most cases, no negative soil side effects, but increase its fertility. Some estimates show biochar having the potential to sequester one billion tons of CO₂ each year. ✓ Fertilizing the oceans with iron to stimulate phytoplankton blooms to absorb carbon dioxide from the atmosphere and export carbon to the deep sea is another possible option. ✓ However, all these steps are still contested and yet remain a possible option to be taken up on a large scale.
92.	Radio Transmission is possible due to Ionosphere.		
94.	<p>107 sunshine countries from across the globe are part of the alliance and more are being asked to join it. The sunshine countries comprises all major countries that lie between the tropics of Cancer and Capricorn, including Mexico, Peru, Chile, Argentina, Paraguay, Brazil, India, Australia, New Zealand, China and other countries. A conclave started from November 30, 2015 for the sunshine grouping, christened as InSPA (International Agency for Solar Policy & Application). The sunniest countries of the world are on the African continent, ranging from Kenya, east to Niger and north to Egypt.</p>		

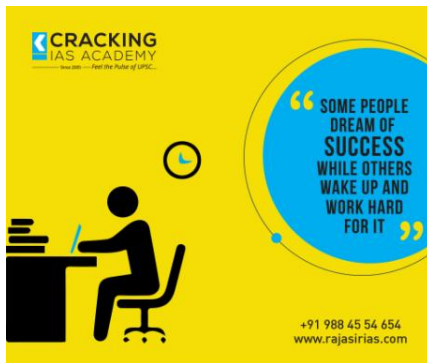
Raja Sir's

CRACKING
IAS ACADEMY

— Since 2005 — *Feel the Pulse of UPSC...*

CSAT PAPER 1 - 2017 - TEST - 6

CrackingIAS.com



9884554654

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Raja Sir's

CRACKING
IAS ACADEMY

— Since 2005 — *Feel the Pulse of UPSC...*

Sail thru **GS OCEAN** UPSC cannot Escape Our Prediction

Joining CrackingIAS for GS - My best choice in Life. Thavaseelan, IAS
Produced AIR < 20 twice, <40 once, & Many more IAS, IPS, IFS.

402 Selections since 2005

CrackingIAS.com

Call: us: 09884554654

Political Science, Sociology, General Studies, Essay & CSAT

IAS Express – a monthly current affairs booklet

10

Answers

1. C	11. A	21. C	31. C	41. B	51. A	61. A	71. B	81. C	91. A
2. D	12. B	22. A	32. C	42. D	52. B	62. B	72. D	82. B	92. D
3. D	13. D	23. D	33. A	43. b	53. A	63. A	73. B	83. B	93. A
4. B	14. D	24. C	34. A	44. A	54. A	64. D	74. A	84. C	94. C
5. A	15. C	25. C	35. C	45. A	55. B	65. D	75. A	85. A	95. A
6. D	16. A	26. A	36. C	46. B	56. D	66. A	76. C	86. B	96. B
7. C	17. D	27. C	37. C	47. B	57. A	67. C	77. C	87. C	97. B
8. D	18. A	28. B	38. B	48. A	58. A	68. D	78. C	88. B	98. A
9. A	19. a	29. A	39. D	49. C	59. B	69. C	79. C	89. B	99. D
10. C	20. C	30. C	40. A	50. D	60. A	70. d	80. C	90. C	100. C

Explanations

1.	<ul style="list-style-type: none"> Manipur has largely three main communities—the Naga and Kuki, who are tribals and Meitei who are non-tribals. While the Naga and the Kuki occupy the hilly areas, the Meitei reside in the valley. Reang or Riang are one of the 21 scheduled tribes of the Indian state of Tripura. The correct nomenclature for this ethnic group is actually Bru. 	8.	<p>nakedness".</p> <ul style="list-style-type: none"> The Stand Up India scheme is anchored by Department of Financial Services (DFS) to encourage greenfield enterprises by SC/ST and women entrepreneurs. The Stand Up India scheme is intended to facilitate at least two such projects per bank branch, on an average one for each category of entrepreneur. The Stand Up India scheme provides for refinance window through Small Industries Development Bank of India (SIDBI) with an initial amount of Rs 10,000 crore. The Stand Up India scheme provides for creation of a credit guarantee mechanism through the National Credit Guarantee Trustee Company (NCGTC).
2.	Attracting and Retaining Youth in Agriculture (ARYA): The ARYA project will attract and empower the Youth in Rural Areas to take up various Agri-enterprises in Agriculture, allied and service sector for sustainable income and gainful employment. The project is running in 25 districts of 25 States through KVKs.	9.	Soil Health card (SHC) is a printed report card issued to farmers in once in three years.
4.	Having read Adam Smith's 'An Enquiry into the Nature and Causes of the Wealth of Nations', Dadabhai Naoroji turned his attention to 'An Enquiry into the Nature and Causes of Indian Poverty'. He enunciated his Drain Theory in his famous book entitled 'Poverty and Un-British Rule in India', which was first published in 1901 and revised in 1911. The Drain of Wealth theory was systemically initiated by Dadabhai Naoroji in 1867 and further analysed and developed by R.P. Dutt, M.G Ranade etc	11.	The Drafting Committee adopted the expression 'Sovereign Democratic Republic', in place of 'Sovereign Independent Republic', as used in the "objective resolution". The Committee also adopted the clause 'fraternity' which did not see in the 'objectives resolution.
7.	Tagore did not approve of the Gandhian movement of burning foreign clothes. Writing his two articles 'The Call of Truth' and 'The Cult of the Charkha' he thought it another instance of a magical formula that considered something impure just because it was foreign, the burning of which would give India instant Swaraj. He exhorted Gandhi's followers to stop obeying orders blindly for he felt it would be better if the clothes were given away to the poor to whom they belonged rather than "heaped up before the very eyes of our motherland shivering and ashamed in her	12.	Global warming is responsible for thermal expansion of sea water and carbon dioxide is chiefly responsible for global warming.
		18.	Volcanoes also give off greenhouse gases. The most abundant gas released from volcanic eruptions is water vapor. Other emitted gases include carbon dioxide (CO ₂), sulfur dioxide (SO ₂), hydrogen sulfide (H ₂ S), carbon monoxide (CO), hydrogen chloride (HCl), and hydrogen fluoride (HF).
		19.	<ul style="list-style-type: none"> Engineer-turned-social crusader Shyam Narayan Chouksey has expressed satisfaction over the Supreme Court order for cinema halls across

<p>the country to play the National Anthem before the screening of a film and people to stand up as a mark of respect.</p> <ul style="list-style-type: none"> • The apex court's directions came yesterday on a PIL filed by Chouksey seeking directions that the National Anthem should be played in cinema halls across the country before a film begins and proper norms and protocol be fixed regarding its playing and singing at official functions and programmes where those holding constitutional office are present. • Chouksey told that the trigger behind his petition, was an incident in 2001 during the screening of the blockbuster film "Kabhi Khushi Kabhie Gham" at a local cinema hall when except a few people, including Chouksey, stood up when the National Anthem was played as part of a scene. 	<p>fisheries sector, Government of India has envisaged a program named "Blue Revolution" to unlock the country's latent potential through an integrated approach. Fish Fingerling production is the single most important critical input visualised to achieve fish production targets under the Blue Revolution.</p>
<p>20. National Green Tribunal (NGT) has directed the Rajasthan government to cancel allotments of salt pans in the Sambhar Salt Lake that fall within the wetland.</p>	<p>31. Scientists on 29 April 2014 for the first time developed Solar Jet Fuel using Sunlight, water and carbon dioxide (CO₂). The project called SOLAR-JET was funded by European Union (EU).</p>
<p>21. India INX will be the fastest international exchange in the world in terms of order response time, with a median trade speed of four microseconds. This is better than BSE's domestic exchange at Mumbai, which has a order response time of six microseconds. In comparison, the second fastest international exchange at Singapore has an order response time of 60 microseconds.</p> <p>✓ India INX at will be open for trading for 22 hours every day. The exchange will open for trading activity daily at 4 am when exchanges in Japan open, and close at 2 am when exchanges in the US close.</p>	<p>32. The accumulation of aerosols in the troposphere is thought to have a cooling effect, as clouds reflect the sun's energy. It may provide an alternative way to mitigate the human-induced effects of climate change.</p>
<p>22. The secession of a state from the Indian Union has been barred by the</p> <p>(a) Constitution (16th Amendment) Act, 1963 (b) Constitution (22nd Amendment) Act, 1969 (c) Constitution (29th Amendment) Act, 1972 (d) Constitution (35th Amendment) Act, 1974</p>	<p>34. Council Bills were the actual means through which money was transferred (It is not a legislation). The would be British purchasers of Indian exports bought. Council Bills from the Secretary of State in return for sterling (which was used to meet the Home Charges). The Council Bills were then exchanged for rupees from the Government of India's revenues. Next the rupees were used to buy Indian goods for export.</p>
<p>23. Other important delegates included Dadabhai Naoroji, Justice Ranade, Pherozezshah Mehta, K.T. Telang and Dinshaw Wacha.</p>	<p>36. Presently, glaciers cover nearly 15 million km² or about 10 % of land surface and contain 2.15 % of all water on Earth. 96 % of all glacial ice on this planet is in Antarctica (84.5%) and Greenland (12%), both of which are nearly covered by glaciers. Australia is the only continent lacking glaciers. The Antarctic ice sheet holds about 90% of the fresh water on the planet's surface. Majority of the present day glacial landforms are developed during the Pleistocene epoch, commonly called as Ice Age (1.6 million to 10,000 years ago).</p>
<p>28. Recognizing the potential and possibilities in the</p>	<p>38. The European Space Agency (ESA) launched a new satellite mission called Swarm on 22nd November 2013. The mission consists of three identical satellites which will measure the strength and direction of Earth's magnetic field to new levels of precision.</p>
	<p>39. With 46% N content, Urea is the most popular Nitrogenous fertilizer around the world. When Urea is applied to soil, it is first hydrolysed (i.e. broken by water) into Ammonical form (Ammonium Ion i.e. NH⁴⁺) and then to nitrite (NO²⁻), followed by to nitrate (NO³⁻) forms by the process called nitrification. Here, we note that most crops use</p>

<p>nitrate as source of nitrogen (A few crops such as Paddy prefer Ammonical form over nitrate.). Thus nitrification process is necessary for making nitrogen available to plants. However, if the process of nitrification is too rapid; nitrogen will escape to atmosphere and plants will not be able to recover it from Urea efficiently. Generally, the plants are able to recover a fraction of all Urea N and this fraction is known as Nitrogen Use Efficiency (NUE). This NUE stands anywhere between 30 to 50%. Thus, two third of Urea Nitrogen escapes from the soil and is not used by the plants. Further, faster conversion of nitrate into Urea also results in accumulation of nitrates in soil / underground water. Once nitrate reaches underground water, it is most difficult to remove; and causes diseases such as blue baby syndrome. This implies that there is a need to regulate the urea hydrolysis and nitrification. This is done by some chemical / natural agents which are called Nitrification inhibitors. However, most of the nitrification inhibitors are costly chemicals (examples nitrapyrin, dicyandiamide and ammonium thiosulphate) beyond reach of Indian farmers. Coating Urea with Neem oil or Neem cake has been proved to be an effective natural alternative to these chemicals. It has been scientifically established that Neem oil serves as an effective inhibitor if coated on Urea. Thus, the benefits are as follows: Neem coating leads to more gradual release of urea, helping plants gain more nutrient and resulting in higher yields. Lower underground water contamination due to leaching of urea. Neem serves as a natural insecticide. Collection of neem seeds is needed for manufacturing of neem coated urea. This would generate employments in rural areas. Neem-coating will help check heavily subsidized urea's pilferage to chemical industry and other uses such as making of adulterated milk. <u>Government Policy on Neem Coated Urea</u> In January 2015, the government allowed the urea producers to produce up to 100% of production as Neem coated urea. Further, the government made it mandatory to produce at least 75% of domestic Urea as Neem coated. The current policy is that Government has mandated all indigenous producers of Urea to produce 100% of urea as Neem coated urea only.</p>	<p>the marriage of the eldest daughter of Keshab Chandra Sen with the minor ruler of Cooch Behar. Neither of the pairs had attained the minimum marriageable age as per the Brahmo Samaj and the Native Marriage Act of 1872. In addition to this , the marriage was performed by the Brahmin priests according to Hindu rites in the presence of the images of Hindu deities. Due to this controversy there sustained a split in the Brahmo Movement. He founded the Indian Reform Association in 1870.</p>
	<p>43. Sardar's efforts for the constitutional guarantee of the privy purse met with a lot of opposition and in 1971, through the 26th Amendment to the constitution, Articles 291 and 362 were repealed with effect from December 28, 1971 and with the introduction of Art 363A, the provision of the privy purse granted to the Rulers of the erstwhile Indian States and certain personal privileges granted to them had been taken away.</p>
	<p>44. G.D.Kumar set up a Swadesh Sevak Home in Vancouver on the lines of the India house in London and also began to bring out a Gurumukhi paper called Swadesh Sewak which advocated social reform and also asked Indian troops to rise in revolt against the British.</p>
	<p>46. ✓ US researchers have developed a vaccine for chikungunya fever made from an insect-specific virus that does not have any effect on people, making the vaccine safe and effective. ✓ The study indicated that the vaccine quickly produces a strong immune defense and completely protects mice and nonhuman primates from disease when exposed to the chikungunya virus.</p>
	<p>47. The Swadeshi enterprise can be traced back to Gopalrao Deshmukh of Poona who advocated use of indigenous products as early as 1849 and in Bengal it was encouraged through Hindu Mela or National Mela founded by Nabagopal Mitra in 1867. Rabindranath Tagore called for self-reliance / atmasakti through Swadeshi and national education. Lala Lajpat Rai, an Arya Samajist advocated Swadeshi cult in the Punjab.</p>
	<p>49. Poisons that dissolve in fat, such as DDT, can become more concentrated as they move up a food chain in a process called biological magnification. When the pesticide enters the water, algae and</p>
<p>40. There was a crisis developed in Brahmo Samaj due to</p>	

	bacteria take in the poison. When fish eat the algae and bacteria, the poison dissolves into the fat of the fish rather than diffusing back into the water. Each time a bird feeds on a fish, the bird accumulates more DDT in its fatty tissues.		thermal systems in that they do not use the sun's heat to generate power. Instead, they use sunlight through the 'photovoltaic effect' to generate direct electric current (DC) in a direct electricity production process. The DC is then converted to AC, usually with the use of inverters, in order to be distributed on the power network.
50.	<ul style="list-style-type: none"> In a minute way, bromine can eat up ozone. Bromine is in the same chemical family as chlorine, the halogens and reacts more effectively with ozone. Bromine is an agriculture chemical that is used as a fumigant against insects and rodents, in both food and tobacco. Natural sources of chlorine add to the depletion of ozone. Volcanic eruptions are occasionally responsible for injecting large quantities of chlorine compounds into the stratosphere which causes an impact. Chloromethane in the atmosphere original from burning plant material. This may include both natural forest fires and slash and burn agriculture. The use of carbon tetrachloride, the dry cleaning agent has been restricted in Europe and North America because of its toxic properties. Carbon tetrachloride has a great potential to eat ozone. Carbon tetrachloride contains chlorine and has a lifetime of about 50 years in the atmosphere. Today carbon tetrachloride is used in fire extinguishers and as a fumigant. 	62.	Dioxins are highly toxic and can cause reproductive and developmental problems, damage the immune system, interfere with hormones and also cause cancer.
		66.	The leaders who provided philosophical background to the rise of extremism in the Indian national movement were Rajnarain Bose & Bankim Chandra Chatterjee in Bengal and Vishnu Shastri Chiplunkar in Maharashtra. Bankim Chandra Chatterjee's call of patriotism & self-sacrifice created a stir, while, Swami Vivekananda, Tilak and Aurobindo Ghosh reminded the people of their glorious Past.
51.	ESZ is notified under Section 3 of the Environment (Protection) Act, 1986	71.	<u>Major Components of NFSM</u> National Food Security Mission – Rice (NFSM-Rice) National Food Security Mission – Wheat (NFSM-Wheat) National Food Security Mission – Pulses (NFSM-Pulses) National Food Security Mission – Coarse cereals (NFSM-Coarse cereals) National Food Security Mission – Commercial crops (NFSM-Commercial crops)
54.	Samitis such as the Swadesh Bandhab Samiti of Ashwini Kumar Dutta (in Barisal) emerged as a very popular and powerful method of mass mobilization. These samitis generated political consciousness among the masses through magic lantern lectures, swadeshi songs, physical and moral training to their members, social work during famines and epidemics, organization of schools, training in swadeshi crafts and arbitration courts.	74.	The Hindu code bill were series of laws that were finally passed after a long opposition in the parliament between its 1955-56 session. The Hindu code bill was principally the creation of two men-Dr.B.R Ambedkar and Pt. Jawaharlal Nehru. Nehru broke down it into 4 laws for the easy passing in the parliament. They were passed one by one during 1955-56 leading to passing of what we call as Hindu code bill.
58.	Mithila Museum is in Japan.	77.	The HIPPO (High Level Independent Panel on Peace Operations) report is aimed at countering international terror groups. The HIPPO report has expanded the scope of counter terror operations beyond the traditional U.N. peace keeping operations by recommending that "ad hoc coalitions authorized by the U.N. Security Council" can undertake counter-terror operations with the intention of peacekeeping and peace-enforcement.
59.	Concentrated Solar Thermal systems (CSP), are not the same as Photovoltaic panels; CSP systems concentrate radiation of the sun to heat a liquid substance which is then used to drive a heat engine and drive an electric generator. This indirect method generates alternating current (AC) which can be easily distributed on the power network. ✓ Photovoltaic (PV) solar panels differ from solar	78.	<ul style="list-style-type: none"> State of Bihar and Uttar Pradesh were affected by

<p>Acute Encephalitis Syndrome(AES). The symptomatic forms of disease leave neurological sequelae or cause death in the severest cases. Japanese Encephalitis, one of the main diseases causing AES, is a viral infection spread mainly through Culex mosquito bites. Children between the age group 2 to 15 are the most vulnerable.</p> <ul style="list-style-type: none"> • AES is caused by various reasons like bacteria, virus etc. of which only JE is vaccine preventable disease, for which vaccination is provided. 	<p>fossil fuel production and commerce) feel more vulnerable to the potential economic impacts of climate change response measures. The Convention emphasizes activities that promise to answer the special needs and concerns of these vulnerable countries, such as investment, insurance and technology transfer.</p> <ul style="list-style-type: none"> • The 49 Parties classified as least developed countries (LDCs) by the United Nations are given special consideration under the Convention on account of their limited capacity to respond to climate change and adapt to its adverse effects. Parties are urged to take full account of the special situation of LDCs when considering funding and technology-transfer activities.
<p>81.</p> <ul style="list-style-type: none"> • BUR has been prepared by the Ministry of Environment, Forest and Climate Change under its NATCOM project funded by Global Environment Facility (GEF) through UNDP. • As per the rules of UNFCCC, BURs are subjected to an international process known as International Consultation and Analysis (ICA). It is a process that includes international scrutiny of BUR in a manner that is non-intrusive, non-punitive and respectful of national sovereignty. All BURs are subjected to ICA process. • Annex I Parties include the industrialized countries that were members of the OECD (Organization for Economic Co-operation and Development) in 1992, plus countries with economies in transition (the EIT Parties), including the Russian Federation, the Baltic States, and several Central and Eastern European States. • Annex II Parties consist of the OECD members of Annex I, but not the EIT Parties. They are required to provide financial resources to enable developing countries to undertake emissions reduction activities under the Convention and to help them adapt to adverse effects of climate change. In addition, they have to "take all practicable steps" to promote the development and transfer of environmentally friendly technologies to EIT Parties and developing countries. Funding provided by Annex II Parties is channeled mostly through the Convention's financial mechanism. • Non-Annex I Parties are mostly developing countries. Certain groups of developing countries are recognized by the Convention as being especially vulnerable to the adverse impacts of climate change, including countries with low-lying coastal areas and those prone to desertification and drought. Others (such as countries that rely heavily on income from 	<p>82.</p> <ul style="list-style-type: none"> • The One-China policy refers to the policy or view that there is only one state called "China", despite the existence of two governments that claim to be "China". • As a policy, this means that countries seeking diplomatic relations with People's Republic of China (PRC, Mainland China) must break official relations with the Republic of China (ROC, Taiwan) and vice versa. • The One China policy is different from the "One China principle", which is the principle that insists both Taiwan and mainland China are inalienable parts of a single China.
	<p>83.</p> <ul style="list-style-type: none"> ✓ Mega Food Park is an inclusive concept and a scheme of the Ministry of Food Processing of the Government of India, aimed at establishing a "direct linkage from farm to processing and then to consumer markets" through a network of collection centres and primary processing centres. Its purpose was to increase processing of perishables from 6% to 20% and to increase India's Share in global food trade by at least 3% up to year 2015. ✓ A sanction of 42 food parks has been planned, out of which 25 in various states have already been sanctioned with 17 pending, expression of interest is available from companies with the government. According to the Government, as of October 2016, 8 mega food parks have become operational and all 42 would be operational in the next 2 years. <p>86. Savarkar and Lala Hardayal, the twin angels of</p>

	<p>revolution, created a spirited atmosphere in the Indian circles in England, and soon India House became a busy cell of revolutionary activity. The tunes of Vande Mataram began to resound in the city of London and annoy the British Government. By the end of 1906, Savarkar completed his book 'Joseph Mazzini – Biography and Politics' It was published in India and had a quick response.</p>
87.	<p>Banerjee launched 'wang-bang' Movement. People tied Rakhis to each other to demonstrate unity. Anand Mohan Bose a veteran political leader laid the foundation of a Federation Hall in Calcutta, which was symbol of the unity of Bengal.</p> <p>97.</p> <ul style="list-style-type: none"> • In the year 2004, Foreign Institutional Investors (FIIs) started buying Indian stocks in dollars. This resulted in an oversupply of USD in Indian market. • To counter this, RBI started buying USD, and in return, supply equivalent amount of Indian Rupees (INR) in the market. This action resulted in over-liquidity in Indian market (due to rupee supply), and at the same time massive increase in forex reserves (due to dollar purchase). • This liquidity overhang situation forced the government to mop up the Rupees from the market by creating MSS Bonds. Market Stabilization Scheme (MSS) • Under this scheme, RBI, on behalf of government, raises money from the market by providing government securities, like Treasury Bills, Dated Securities, etc. • But the difference is - the raised money doesn't go to the government account (as in normal cases). Instead, the money is stored in separate Market Stabilization Scheme Account (MSSA). The sole purpose of this scheme is to suck out the over-liquidity from the market (as in the above situation), not for government expenditure.
89.	<p>NITI Aayog launched the second version of the India Energy Security Scenarios 2047 calculator (IESS 2047), an open source web based tool. The tool aims to explore a range of potential future energy scenarios for India, for diverse energy demand and supply sectors leading up to 2047. It explores India's possible energy scenarios across energy supply sectors such as solar, wind, bio fuels, oil, gas, coal and nuclear and energy demand sectors such as transport, industry, agriculture, cooking and lighting appliances. The model allows users to interactively make energy choices, and explore a range of outcomes for the country-from carbon dioxide emissions and import dependence to land use.</p> <p>The UK Department for Energy and Climate Change (DECC) is the initiative partner with NITI Aayog in this project. M</p>
90.	<p>100</p> <p>Aerosols have a cooling effect on Earth's climate when they scatter solar radiation because some of the scattered light is reflected back into space. Major volcanic eruptions that inject large quantities of aerosols into the stratosphere, such as that of Mt. Pinatubo in 1991, can noticeably reduce average global surface temperatures for some time afterward.</p>
91.	
93.	



(Since - 2005 - 300 + Selections)

**Our
Old Students
Say We Are
The Best.**



Celebrating Success
IAS Coaching Classes @ Chennai

Answers

1. A	11. C	21. B	31. A	41. D	51. B	61. A	71. A	81. C	91. A
2. D	12. B	22. B	32. C	42. A	52. A	62. A	72. A	82. C	92. C
3. A	13. C	23. A	33. D	43. A	53. B	63. A	73. B	83. A	93. A
4. A	14. A	24. A	34. A	44. D	54. D	64. D	74. C	84. B	94. B
5. D	15. D	25. D	35. C	45. C	55. A	65. C	75. C	85. C	95. A
6. C	16. D	26. C	36. D	46. C	56. A	66. A	76. C	86. D	96. C
7. D	17. A	27. A	37. A	47. A	57. B	67. B	77. C	87. B	97. C
8. A	18. D	28. B	38. C	48. b	58. D	68. A	78. B	88. A	98. A
9. B	19. C	29. A	39. A	49. C	59. C	69. A	79. C	89. D	99. C
10. C	20. D	30. B	40. A	50. A	60. A	70. A	80. C	90. D	100. A

Explanations

2. Helpful to developing countries where it is difficult to create resources through taxation.
4. ➤ WPI measures inflation at wholesale market, while CPI measure at retail level. Besides, the way two indices are calculated differs, both in terms of weightage assigned to products as well as the kind of items included in the baskets of products.
➤ Wholesale prices are more or less same throughout the country but Consumer prices vary across the regions(rural and urban) and also across the cities according to the consumer preference for certain products, supplies and purchasing power.
5. Pakke Tiger Reserve in East Kameng district of Arunachal Pradesh has received the India Biodiversity Award 2016. The Hornbill Nest Adoption Programme of the Pakke Tiger Reserve was awarded the prize under the category, "Conservation of Threatened Species".
6. BOP of a country is the record of all economic transactions between the residents of the country and the rest of the world in a particular period (over a quarter of a year or more commonly over a year). If there is deficit in the current account, it should be matched with surplus in the capital account.
8. Red Flag is an advanced aerial combat training exercise conducted in Alaska (USA) regularly. USA and NATO countries participate in the exercise. IAF is expected to take part in the exercise in 2016, 8 years after it took part for the first time in 2008.
9. Normally, the vote-on-account is taken for two months only. But during election year or when it is anticipated that the main Demands and Appropriation Bill will take longer time than two months, the vote-on-account may be for a period extending two months. Typically this period does not exceed six months, as that is the maximum gap possible between two sittings of the Parliament. Normally a vote-on-account is in operation till the full Budget is passed.
10. The ' Quick Employment Survey ' is being conducted by Labour Bureau since January 2009 to assess the impact of economic slowdown on employment in India. The Ministry of Labour and Employment took a serious note of the economic slowdown and felt the need to assess the impact of the crisis on employment. The Quick Employment Surveys are quarterly surveys. The survey is conducted in Textiles, Metals, Automobiles, Gems & Jewellery, Transport, IT/BPO, Mining, leather and handloom/power loom. The Quick Employment Survey tries to capture changes in level of employment in two categories. Direct and contract covering both manual and non-manual workers.
12. Interest payments on international investments is credited or debited into Current Account.
13. **Fundamental Rights available to only citizens and not foreigners** - Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth (Article 15). Equality of opportunity in matters of public employment (Article 16). Six basic freedoms subject to reasonable restrictions (Article 19). Protection of language, script and culture of minorities (Article 29). Right of minorities to establish and administer educational institutions (Article 30). Other Fundamental rights are available to both citizens and foreigners except enemy aliens.
14. ✓ An Invasive Alien Species (IAS) is one which reproduces in large number in a region far away from its native habitat. The off springs then

compete for resources and hurt natural ecology of the region by threatening survival of native species.

- ✓ Snowflake coral is one such species that has colonized waters off the coasts of India. It is a native of tropical west Atlantic and Caribbean. It is invasive because it crowds out other marine life like algae, coral, sponges. It is currently threatening marine ecology of A&N islands, Nicobar, Kutch and Goa.

15. ➤ Contraction in money supply will reduce the domestic prices and hence increase the export not import thus resulting into correction in BoP deficit

- Less Money supply will reduce the aggregate demand and purchasing power. Less demand means fall in domestic prices and thrust to export.
- The fall in the domestic prices would encourage more exports, to earn better money.
- Increase in tourism will add more foreign currency and hence BoP will get better.

17. The Government of India has constituted a 'Committee for Evolution of the New Education Policy' headed by Shri T.S.R. Subramanian.

19. ✓ **NASA's Curiosity rover finds purple rocks on Mars** - The orange—looking rocks above the purplish foreground ones are in the upper portion of the Murray formation, which is the basal section of Mount Sharp, extending up to a ridge—forming layer called the Hematite Unit.

20. Pranhita is the largest tributary of Godavari River. The Pranhita begins at the confluence of 2 extensive rivers - the Wardha and the Wainganga. This junction lies on the border between the states of Maharashtra and Telangana near Kouthala. Pranahita Chevella lift irrigation scheme and a joint project between the Maharashtra and Telangana.

22. ✓ The French citizens will contribute an extra 1.60 euros (\$1.67) on their property insurance policies to help finance a fund for victims of the extremist attacks that have recently hit the country. The measure comes into force on 1st of January 2017 and requires policy holders across the country to contribute 5.90 euros instead of 4.30 euros.

23. ✓ A seven-judge Bench of the Supreme Court held

that an appeal for votes during elections on the basis of religion, caste, race, community or language, even that of the electorate, will amount to a 'corrupt practice' and call for disqualification of the candidate.

- ✓ Section 123(3) of the Representation of the People Act, defines a corrupt electoral practice as follows: "The appeal by a candidate or his agent or by any other person with the consent of a candidate or his election agent to vote or refrain from voting for any person on the ground of his religion, race, caste, community...."

24. ✓ WTO's Special Safeguard Mechanism (SSM) is a protection measure allowed for developing countries to take contingency restrictions against agricultural imports, that are causing injuries to the domestic farmers. The contingency measure is imposition of tariff, if the import surge causes welfare loss to the domestic poor farmers. The design and use of the SSM is an area of conflict under the WTO.

- ✓ The Special Agricultural Safeguards (SSG) was available to all countries both developing and developed, whereas the SSM is allowable only to the developing countries. It is to be mentioned that the SSG was available, as it was inducted under the GATT agreement; whereas the SSM was the invention of the Doha Ministerial Conference.

25. Tax Policy Council chaired by Finance Minister.

- ✓ It will be headed by an officer of the level of Chief Commissioner at functional level alternatively from CBDT and CBEC for a fixed tenure, who will directly report to Revenue Secretary.

28. It is run on the principle of "Not for Profits but with Minimal Profits". Under this, less priced quality unbranded generic medicines will be made available.

30. Ordinance can't be issued to amend constitution

31. ✓ The Solar Dynamics Observatory is the first mission to be launched for NASA's Living With a Star (LWS) Program, a program designed to understand the causes of solar variability and its impacts on Earth. SDO is designed to help us

understand the Sun's influence on Earth and Near-Earth space by studying the solar atmosphere on small scales of space and time and in many wavelengths simultaneously.

- ✓ To maintain accuracy, NASA said its missions, including the Solar Dynamics Observatory, or SDO, which continuously watches the sun, will join official clocks around the world in adding a leap second to the final minute of 2016.

32. The Supreme Court is the custodian of the Constitution of India and the higher judiciary has played a crucial role in supporting the separation of powers, an important feature of our democracy. Among the countervailing forces of the legislature, the executive and the judiciary, the last has protected its freedom most jealously and zealously, and urged the other two to stay in line. Besides, with progressive judgments on a diversity of issues, the high courts and the Supreme Court have shouldered the work of the other two pillars of democracy when they flagged in their efforts.

34. Rotavirus is the most common cause of severe diarrhea (gastro enteritis) disease in infants and young children globally. ROTAVAC is an oral vaccine.

36. After ten long years of research punctuated with technical delays, the Central Institute of Cotton Research (CICR) in Nagpur is ready with 20,000 packets of desi Bt cotton seeds for distribution to farmers. Bikaneri Narma is beneficial in drought-tolerant, non-irrigated areas and is also resistant to sucking pests like jassids and aphids. Biotechnologically, cotton is acknowledged to be a very tough crop. Even the Monsanto method was successful on only two American varieties, Coker 312 and Coker 310. Similar efforts had failed in China too. Besides the CICR, only China has succeeded in developing its own protocol called Pollen 2 Pathway.

38. ➤ Closure is one of the means by which a debate may be brought to a close by a majority decision of the House, even though all Members wishing to speak have not done so. Guillotine refers to putting by the Speaker of outstanding question or

questions relating to the business in hand on expiry of the time allotted for its discussion. Unlike closure, the guillotine to be applied is not preceded by any motion.

- On the last of the allotted days at the appointed time, the Speaker puts every question necessary to dispose of all the outstanding matters in connection with the demands for grants. The guillotine concludes the discussion on demands for grants.

39. ➤ This Bank would be responsible for regulating and refinancing all Micro-finance Institutions (MFI) which are in the business of lending to micro/small business entities engaged in manufacturing, trading and services activities.

- In lending, MUDRA proposes to give priority to enterprises set up by the under-privileged sections of the society particularly those from the scheduled caste / tribe (SC/ST) groups, first generation entrepreneurs and existing small businesses.

➤ MUDRA Bank will refinance Micro-Finance Institutions through a Pradhan Mantri Mudra Yojana.

40. The President can pardon death sentence while governor cannot. Even if a state law prescribes death sentence, the power to grant pardon lies with the President and not the governor. However, the governor can suspend, remit or commute a death sentence. In other words, both the governor and the President have concurrent power in respect of suspension, remission and commutation of death sentence.

43. Gravitational waves are 'ripples' in the fabric of space-time caused by some of the most violent and energetic processes in the Universe. Albert Einstein predicted the existence of gravitational waves in 1916 in his general theory of relativity.

44. According to the Sunset Law, if payment did not come in by sunset of the specified date, the zamindari was liable to be auctioned.

45. The Archaeological Survey of India was founded in 1861 under British colonial administration by Sir Alexander Cunningham with the help of the then Viceroy Charles John Canning. At that time, its domain included the entire British India including

Afghanistan and Burma.	2016 and 7.5 % in 2017 slightly up from an earlier estimated 7.2 % rate in 2015.
46. "Smokeless" panchayat concept is part of an Indian Oil Corporation corporate social responsibility initiative to make LPG connection available across rural India. Vychakurahalli village of Karnataka state of India became first village as smokeless village.	56. ✓ The width of the ESZ and type of regulation may vary from protected area to area. However, as a general principle, the width of the ESZ could go up to 10 kms around the protected area. ✓ The purpose of declaring an Eco-Sensitive Zone is to create a buffer zone, where activities will be regulated to protect areas demarcated as Protected Areas. ✓ The ESZ guidelines include a broad list of activities that could be allowed, promoted, regulated or promoted. This is an important checklist for conservationists to keep in mind while identifying threats in ESZs.
47. Ordinance can't be issued to amend constitution	
48. ➤ In his pamphlet, "How to Pay for the War" published in 1940, Keynes explained the concept of the inflationary gap. It differs from his views on inflation given in the General Theory. In the General Theory, he started with underemployment equilibrium. But in How to Pay for the War, he began with a situation of full employment in the economy. ➤ He defined an inflationary gap as an excess of planned expenditure over the available output at pre-inflation or base prices. According to Lipsey, "The inflationary gap is the amount by which aggregate expenditure would exceed aggregate output at the full employment level of income."	57. The indigenous Garasia tribe from Rajasthan has been practicing a different tradition from thousands of years. 'Garasia' members cohabit in live-in relationships without getting married for long time. Sometimes, the couples decide not to get married at all and continue living the way they are.
52. M.G. Ranade was one of the founder members of the Widow Marriage Association in 1861. The Deccan Education Society was founded under his guidance.	58. Most democracies including Britain, the United States of America, Australia and Canada do not have provisions similar to that of Ordinances in the Indian Constitution. The reason for an absence of such a provision is because legislatures in these countries meet year long.
54. In the Indian context the Securities Contracts (Regulation) Act, 1956 (SC(R)A) defines "derivative" to include – • A security derived from a debt instrument, share, loan whether secured or unsecured, risk instrument or contract for differences or any other form of security. • A contract, which derives its value from the prices, or index of prices, of underlying securities. Derivatives are securities under the SC(R)A and hence the trading of derivatives is governed by the regulatory framework under the SC(R)A.	60. Swadhar is a Central sector scheme for providing holistic and integrated services to women in difficult circumstances such as destitute widows, women prisoners released from jail and without family support, women survivors of natural disasters; trafficked women/girls rescued from brothels or other places or victims of sexual crime, mentally challenged women who are without any support etc. With the objective to improve the nutritional and health status of adolescent girls in the age group of 11-18 years and empower them by providing education in life-skills, health and nutrition, the Government of India introduced the Rajiv Gandhi Scheme for Empowerment of Adolescent Girls – SABLA in November, 2010. SABLA scheme replaced the erstwhile Kishori Shakti Yojana (the objective of this scheme was to
55. As per recently released United Nations (UN) World Economic Situation and Prospects 2016 Report, India will be the fastest growing big economy in the world in 2016. The report has projected India's growth rate by 7.3 % in the year	

improve the nutrition and health status of girls in the age-group of 11 to 18 years, to equip them to improve and upgrade their home-based and vocational skills, and to promote their overall development, including awareness about their health, personal hygiene, nutrition and family welfare and management) and Nutrition Programme for Adolescent Girls (under this programme, 6 kg of free food grain per beneficiary per month was given to undernourished Adolescent Girls).

61. ➤ Fiscal deficit will reduce as cost of government borrowing will reduce in light of reduced interest rates.
- There is a huge possibility of misallocation of capital inflows which means such capital inflows may fund low-quality domestic investments instead of investing in building up industries which leads to more capacity creation and utilization, and increased level of employment. This can also reduce the potential of country to increase exports and will thus create external imbalances. This can also lead to the export of domestic savings which one would have invested in domestic market otherwise but will now think of investing in foreign markets to reduce the risk.
- Entry of foreign banks would result in increased competitiveness in terms of accessing the loan proposals as the foreign banks will shy away from giving loans to farmers and the small scale industrialists as they find them less credit worthy and Indian Banks will also follow the same route to be competitive.
- International finance capital is highly volatile as the investor move from country to country in search for higher returns for their investments. This process has led to crisis in numerous developing countries. Such finance capital is referred to as "Hot Money". FCAC exposes an economy to the risk of volatility on account on "Hot Money" flows in and out of the country.
63. ✓ Open Market Sale Scheme (OMSS) refers to selling of foodgrains by Government / Government agencies at predetermined prices in the open market from time to time to enhance the supply of grains especially during the lean season and thereby to moderate the general open market prices especially in the deficit regions.
- ✓ In addition to maintaining buffer stocks and making a provision for meeting the requirement of the Targeted Public Distribution Scheme and Other Welfare Schemes (OWS), Food Corporation of India (FCI) on the instructions from the Government, sells wheat and rice in the open market from time to time to enhance the supply of wheat and rice especially during the lean season and to moderate the open market prices especially in the deficit regions.
66. The Palitana Temples, constructed in marble and white stone, are considered to be one of the most sacred pilgrimage centres by the Jains.
68. When more than required numbers of people are engaged in productive activities, it is called underemployment. In this case, work done by a person is hidden and even if the person is removed from employment, the production will remain the same. For example, when the work requires the service of five people but engages eight people, the three extra people are disguisedly employed. Hence, underemployment is also known as disguised unemployment.
69. The World Bank Reports the 'Global Economic Prospect', it is also called a flagship report by the World Bank Group. However, the IMF publishes the 'Global Economic Outlook'.
71. ➤ **Simple Majority:** This refers to majority of more than 50% of the members present and voting. For example if 200 members are present and voting then simple majority will be considered as 101, as it is more than 50% of members presenting and voting. It does not matter what is the total membership or how many are absent in the house, what matters is present and voting. Most of the normal motions in the house such as No-confidence Motion, Vote of thanks (to the President or Governor), Adjournment Motion, Censure Motion, Cut motions etc. need simple majority.
- **Absolute Majority:** It refers to a majority of more than 50% of the total membership of the house. For example if the total strength of Rajya Sabha or Upper house is 250 then the absolute

majority will be considered as 126 irrespective of voting number. It is not used anywhere in constitution as standalone requirement.

➤ **Effective Majority:** Effective Majority of house means more than 50% of the effective strength of the house. This implies that out of the total strength, we deduct the absent and vacant seats. Our Constitution writes “all the then members” which refers to effective majority.

➤ **Special Majority:** This is a special kind of majority required in certain cases. The majority votes of 2/3rd members present and voting and also these votes should exceed 50% of the total strength of house. Now let's assume a scenario: The strength of the house is 250 and let's assume 230 are present. Now the absolute majority will be considered if the positive votes will exceed both condition – 2/3rd of present and voting that is 154 and more than 50% of total strength of the house that is 126. So in this condition 154 votes will be required.

72. Consumer Price Index (CPI) in India comprises multiple series classified based on different economic groups. There are four series, viz the CPI UNME (Urban Non-Manual Employee), CPI AL (Agricultural Labourer), CPI RL (Rural Labourer) and CPI IW (Industrial Worker). While the CPI UNME series is published by the Central Statistical Organisation, the others are published by the Department of Labour. From February 2011 the CPI (UNME) released by CSO is replaced as CPI (urban), CPI (rural) and CPI (combined).

74. ➤ The statutory liquidity ratio (SLR) is the ratio (fixed by the RBI) of the total deposits of a bank which is to be maintained by the bank with itself in non-cash form prescribed by the Government.
➤ The cash reserve ratio (CRR) is the ratio (fixed by the RBI) of the total deposits of a bank in India which is kept with the RBI in cash form.

76. VPM1002, developed at the Max Planck Institute for Infection Biology, Berlin, contains genetically modified mycobacterium bovis bacteria. A built-in gene makes it easier for immune cells to recognise the bacteria — the organism can thus protect itself against the actual infection with dangerous tuberculosis pathogens.

77. The concept of 'residence' is central to BoP compilation as it is a statistical statement showing all economic transactions between residents of one economy and those of the rest of the world (non-residents). In compiling BoP, it is, therefore, necessary to determine the economic entities which are residents of an economy and those which are non-residents.

78. Ministry of Science & Technology and Earth Sciences dedicated the Search and Rescue Aid Tool (SARAT) to the Nation during the XV National Maritime Search and Rescue (NMSAR) Board. In addition, an experimental version of SARAT was used to provide Search And Rescue support to all the concerned in connection with the missing AN 32 aircraft, which was reportedly missing off Chennai on 22 July 2016.

80. 1. Revenue deficit = Total revenue expenditure – Total revenue receipts.
2. Fiscal deficit = Total expenditure – Total receipts excluding borrowings.
3. Primary deficit = Fiscal deficit - Interest payments.

81. ShaGun is a web portal (from the words Shaala and Gunvatta) is being developed by Ministry of HRD. It has two components i.e. one is a Repository of best practices, photographs, videos, studies, newspaper articles etc on elementary education, State /UT wise.

82. Following are 8 core industries which form IIP - Coal, Crude Oil, Petroleum Refinery Products, Natural Gas, Fertilizer, Steel, Cement, Electricity

83. ➤ Inter-State Council is a recommendatory body to investigate and discuss subjects, in which some or all of the states or the union government have a common interest, recommendations for the better coordination of policy and action, matters of general interest to the states. Article 263 of the Constitution of India provides for the establishment of an Inter-State Council.

➤ The inter-state council is not a permanent constitutional body for coordination between the states and union government. It can be established 'at any time' if it appears to the President that the public interests would be served by the establishment of such a council.

85. Inflation-Indexed Bonds or IIBs are bonds where

both the principal and the interest are indexed to inflation. In this way it is different from the Capital Indexed Bonds (CIBs) issued in 1997 which provided inflation protection only to principal and not to interest payment. These are thus designed to cut out the inflation risk of an investment. These bonds will be linked to the inflation index of the country and serve as a better investment option as compared to physical assets like real estate and gold. Higher the inflation, the higher would be the returns.

87.

Silk Road sites in India are sites that were important for trade on the ancient Silk Road. There are 12 such places in India. These are spread across seven states in India - Bihar, Jammu and Kashmir, Maharashtra, Puducherry, Punjab, Tamil Nadu and Uttar Pradesh.

88. The Ministry of Statistics and Programme Implementation has two wings, one relating to Statistics and the other Programme Central Statistical Office (CSO), the Computer Centre and the National Sample Survey Office (NSSO). The Central Statistical Office which is one of the two wings of the National Statistical Organization (NSO) is responsible for coordination of statistical activities in the country and for evolving and maintaining statistical standards. Its activities include compilation of National Accounts; conduct of Annual Survey of Industries and Economic Censuses, compilation of Index of Industrial Production, as well as Consumer Price Indices.

89. ✓ Delhi's per capita income is three times the national average INR 93,293. It was followed by Chandigarh and Sikkim with per capital incomes of INR 2,42,386 and INR 2,27,465.

91. • The government declared 2016 as the 'Year of LPG Consumers' and vowed to make clean cooking fuel available to every household by 2018.

92. • The State Emergency (President's Rule) is applicable to the state.
• However, this emergency can be imposed in the state on the ground of failure of the

constitutional machinery under the provisions of state Constitution and not Indian Constitution.

- In fact, two types of Emergencies can be declared in the state, namely, President's Rule under the Indian Constitution and Governor's Rule under the state Constitution.
- In 1986, the President's Rule was imposed in the state for the first time.

94. ➤ Monthly Index on mineral production excluding atomic minerals forms part of Monthly Index on Industrial Production (IIP) released by the Central Statistical Office, Ministry of Statistics & Programme Implementation, New Delhi.

95. WPI refers to the price index used for determination of price of goods before it amongst the industries, on the contrary, CPI refers to the price index which is used to determine the cost of goods at which it should be sold to the final consumer.

96. ✓ Agni-IV missile is equipped with 5th generation on-board computer and distributed architecture. It has the latest features to correct and guide itself for in-flight disturbances. The sophisticated surface-to-surface missile is equipped with modern and compact avionics to provide high level of reliability.

✓ Agni-IV, which is a nuclear capable missile, has a range of over 4,000 kilometres. The Agni-V, which was tested last week has a range of over 5,000 kilometres. Both missiles are capable of covering most parts of China.

✓ Agni-IV fire and forget missile is navigated using a jam proof ring laser gyroscope. The re-entry heat shield can withstand temperatures in the range of over 4,000 degrees centigrade and makes sure the avionics function normally with inside temperature remaining less than 50 degrees centigrade.

97. ➤ Inflation is a sustained rise in overall price levels.

➤ Repo rate is the rate at which the RBI lends money to commercial banks. In the event of inflation, central banks increase repo rate as this acts as a disincentive for banks to borrow from the central bank. This ultimately reduces the money supply in the economy and thus helps in

arresting inflation.

- Introduction of increased taxes is one of the fiscal policies to control inflation. But sometimes this may result in cost-push inflation, as increased indirect tax rate increases cost of production.
- Maintenance of buffer stock of major agricultural products could be used in supply management which maintains price stability.
- Decrease in crude oil production increases crude oil price, which in turn increases cost of production.

98. The Vishakha guidelines define sexual harassment including unwelcome sexually determined behaviour (whether directly or by implication) as:

- a) Physical contact and advances;
- b) A demand or request for sexual favours;
- c) Sexually coloured remarks;
- d) Showing pornography;
- e) Any other unwelcome physical, verbal or non-verbal conduct of sexual nature

99. The poverty gap is the average shortfall of the total population from the poverty line. This measurement is used to reflect the intensity of poverty. When it is calculated it gives an index relevant for measuring poverty and depth of poverty.

CrackingIAS.com

(Since - 2005 - 300 + Selections)

**Our
Old Students
Say We Are
The Best.**



Celebrating Success

IAS Coaching Classes @ Chennai

Crackingias.com

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

Raja Sir's

CRACKING
IAS ACADEMY
— Since 2005 — Feel the Pulse of UPSC... —

SOLID 60 - PRELIMS 2017
JET FAST Classes from May 15, 2017
@ Rs. 1000/- ONLY
A SURE SHOT COURSE

ONLY UNIQUE COURSE @ CHENNAI
50 HOURS CLASS

- * General Science 900 only
- * India Year Book if you Join before
- * Economic Survey April 10 2000
- * PIB Coverage Potential questions

Target to Clear Prelims
Not to Top Prelims

CALL/SMS/ Whats App Your Name to : **98845 54654**

2nd Floor, New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY

Answers

1. A	11. B	21. D	31. D	41. A	51. B	61. C	71. A	81. B	91. C
2. A	12. D	22. B	32. C	42. A	52. C	62. C	72. B	82. B	92. D
3. D	13. D	23. D	33. C	43. B	53. A	63. D	73. B	83. C	93. B
4. B	14. A	24. D	34. A	44. D	54. A	64. D	74. A	84. A	94. D
5. C	15. C	25. C	35. C	45. D	55. D	65. D	75. C	85. C	95. A
6. A	16. B	26. A	36. A	46. B	56. B	66. D	76. D	86. C	96. A
7. C	17. A	27. B	37. C	47. D	57. A	67. C	77. A	87. A	97. D
8. D	18. A	28. A	38. C	48. A	58. A	68. D	78. D	88. A	98. D
9. A	19. D	29. A	39. A	49. B	59. C	69. A	79. A	89. A	99. C
10. A	20. C	30. A	40. B	50. B	60. D	70. B	80. B	90. C	100. B

Explanations

1.	<ul style="list-style-type: none"> ✓ 'Sukanya Samridhi Yojna' is a small deposit scheme for girl child, launched as a part of the 'Beti Bachao Beti Padhao' campaign, which would fetch an interest rate of 9.1 per cent and provide income tax rebate. ✓ 'Sukanya Samridhi Account' can be opened at any time from the birth of a girl child till she attains the age of 10 years, with a minimum deposit of Rs 1000. A maximum of Rs 1.5 lakh can be deposited during a financial year. 	<ul style="list-style-type: none"> ➤ It wins at least two percent (2%) seats in the House of the People (i.e., 11 seats in the existing House having 543 members), and these members are elected from at least three different States. OR ➤ A party has got recognition as a state party in at least four states.
2.	<ul style="list-style-type: none"> ➤ "Hangzhou Consensus" calls on the G20 to deliver more inclusive economic growth through co-ordinated macroeconomic policy, open trade and innovation. In short, it reaffirms the group's core mandate: to make globalisation work for the benefit of all. 	7. The Gender Inequality Index (GII) is an index for measurement of gender disparity that was introduced in the 2010 Human Development Report 20th anniversary edition by the United Nations Development Programme (UNDP). According to the UNDP, this index is a composite measure which captures the loss of achievement within a country due to gender inequality. It uses three dimensions to do so: reproductive health, empowerment, and labor market participation.
5.	<ul style="list-style-type: none"> ✓ One Stop Centres (OSC) are intended to support women affected by violence, in private and public spaces, within the family, community and at the workplace. Women facing physical, sexual, emotional, psychological and economic abuse, irrespective of age, class, caste, education status, marital status, race and culture will be facilitated with support and redressal. ✓ The OSC will support all women including girls below 18 years of age affected by violence, irrespective of caste, class, religion, region, sexual orientation or marital status. 	8. <ul style="list-style-type: none"> ➤ Vietnam has cancelled an event marking the 50th anniversary of Australia's bloodiest battle in the Vietnam War. The commemoration of the battle of Long Tan was due to be held at a cross marking the site today. ➤ More than 1,000 Australian veterans and their families have travelled to Vietnam to commemorate the anniversary. Eighteen Australian soldiers and hundreds of North Vietnamese and Viet Cong fighters died in the battle, deep in southern Vietnam, on 18 August 1966.
6.	<p>A political party shall be eligible to be recognized as a National party if :-</p> <ul style="list-style-type: none"> ➤ It secures at least six percent(6%) of the valid votes polled in any four or more states, at a general election to the House of the People or, to the State Legislative Assembly; and in addition, it wins at least four seats in the House of the People from any State or States. OR 	10. <ul style="list-style-type: none"> ✓ China has successfully launched the world's first quantum satellite dubbed as Quantum Experiments at Space Scaler (QUESS) satellite. ✓ The satellite was launched on board of Long March-2D rocket from the Jiuquan Satellite Launch Centre in the remote northwestern province of Gansu.
11.		Food & Nutrition Board (FNB) was established in

	the Department of Food, Ministry of Agriculture, in 1964 as a non-Statutory Ministerial wing with the objective of diversifying Indian diet for improving the nutritional status of the people. Later the Food and Nutrition Board was transferred to the Department of Women and Child Development with effect from 01.04.1993 in pursuance of the National Nutrition Policy adopted by the Government in 1993 and now it is a technical support wing under Child Development Bureau of the Ministry.		extent of granting them the right to self-determination as guaranteed under Article 244 (Administration of Scheduled Areas and Tribal Areas) of Part X: The Scheduled and Tribal Areas.
12.	Khadi or hand-spun cloth is the only material allowed to be used for the flag, and flying a flag made of any other material is punishable by law with imprisonment up to three years, besides a fine. Raw materials for khadi are restricted to cotton, silk and wool.	16.	The Finance Ministry has set up a Public Debt Management Cell (PDMC). It is an interim arrangement and will be upgraded to a statutory Public Debt Management Agency (PDMA) in about two years. Its main purpose is to allow separation of debt management functions from RBI to PDMA in a gradual and seamless manner, without causing market disruptions. PDMC will have 15 experienced debt managers from Ministry and RBI for the required expertise. A joint implementation committee chaired by Joint secretary (Budget) will oversee the transition process of PDMC to PDMA.
13.	Minimum support prices are currently announced for 24 commodities including seven cereals (paddy, wheat, barley, jowar, bajra, maize and ragi); five pulses (gram, arhar/tur, moong, urad and lentil); eight oilseeds (groundnut, rapeseed/mustard, toria, soyabean, sunflower seed, sesamum, safflower seed and nigerseed); copra, raw cotton, raw jute and virginia flu cured (VFC) tobacco.	17.	Rotavac is developed indigenously using indigenous strain by Bharat Biotech Ltd., Hyderabad and Department of Biotechnology, Government of India. Regarding the gastroenteritis, commonly known as diarrhoea infection, children are more susceptible to infection due to weak immune system, it rarely infects adults. Generally, it is not fatal in case of adults. It is administered three times orally at 4 weeks interval, not through injection i.e. sub-cutaneous.
14.	➤ NASA's Cassini Spacecraft has discovered steep-sided canyons, hundreds of meters deep, on Saturn's moon Titan. The canyons are flooded with liquid hydrocarbons. The finding represents the first direct evidence of the presence of liquid-filled channels on Titan, as well as the first observation of the deep canyons.	18.	Russia lost its bid to retain a seat on the UN Human Rights Council due to allegations of war crimes in relation to its policies in Syria. It was the first time since the UNHRC's creation a decade ago that one of the Security Council's five permanent members failed to be elected to the council.
15.	<ul style="list-style-type: none"> • The Indian Constitution protects tribal interests through the Fifth and Sixth Schedule. • PESA comes under the Fifth Schedule, which mandates tribal advisory councils to oversee tribal affairs and also gives extrajudicial, extra-constitutional powers to the Governors of each State to intervene in matters where they see tribal autonomy being compromised. • Most of the tribes in India are collectively identified under Article 342 (1&2) of the Constitution as Scheduled Tribes, which provided them overarching immunity to the 	19.	The report examines four overall areas of inequality between men and women in 130 economies around the globe, over 93% of the world's population:- <ol style="list-style-type: none"> 1. Economic participation and opportunity – outcomes on salaries, participation levels and access to high-skilled employment 2. Educational attainment – outcomes on access to basic and higher level education 3. Political empowerment – outcomes on

	<p>representation in decision-making structures</p> <p>4. Health and survival – outcomes on life expectancy and sex ratio.</p>		
20.	<p>The BIMSTEC (Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation) countries have expressed commitment to combat terrorism in all its forms and manifestations. In this regard, seven nations of BIMSTEC countries have issues Leaders Retreat Outcome Document emphasising that there can be no justification for acts of terror.</p>		<p>Legal Policy: Kesavananda Bharati v State of Kerala (1973) which struck down part of the 25th Amendment for taking away judicial review of land reform laws; Indira Gandhi v Raj Narain (1975) which struck down part of the 39th Amendment for taking away judicial review of elections of the PM and Speaker; Minerva Mills v Union of India (1980) which struck down parts of the 42nd Amendment for making Directive Principles superior to Fundamental Rights and for removing judicial review over amendments to the Constitution; P Sambamurthy v State of Andhra Pradesh (1987) which struck down part of the 32nd Amendment for permitting the Government of Andhra Pradesh to modify or change orders of Administrative Tribunals before it decides to implement them and L Chandra Kumar v Union of India (1994) which struck down part of the 42nd Amendment for taking away the power of the High Court to review judgments of tribunals.</p>
22.	<p>17 neglected tropical diseases are prioritized by WHO. These diseases are common in 149 countries, affecting more than 1.4 billion people including more than 500 million children and costing developing economy billion of dollars every year. Out of these 17, two were targeted for eradication. Guinea worm disease (Dracunculiasis) eradication by 2015. Yaws eradication by 2020</p> <p>6.Four diseases were targeted for elimination are blinding trachoma, human African Trypanosomiasis, leprosy and lymphatic filariasis by 2020.</p> <p>Why these diseases are neglected?</p> <ol style="list-style-type: none"> 1. These group of diseases has been overlooked because they mainly affect the poorest countries of developing world. 2. Many are asymptomatic and have long incubation periods. 3. Lack of public awareness. 4. Three deadly diseases HIV, Tuberculosis, Malaria infections decreased so the associated diseases NTDs neglected. <p>NTD are: Dengue, Rabies, KalaAzar, Blinding-trachoma, Ascariasis, Trichuriasis, Hook worm infection, Leprosy. Lymphatic filariasis. Guinea worm diseases (India certified free of disease), Yaws-eradicated.</p>	24.	<p>✓ Parliament may provide for compensation to states for revenue losses arising out of the implementation of GST for up to 5 years, based on the recommendations of the GST Council.</p>
		26.	<p>The Union Government has decided to set up a committee to look at easing the policy regime for e-commerce players, including the rules for foreign direct investment (FDI). The committee will be headed by Amitabh Kant, CEO of NITI (National Institution for Transforming India) Aayog.</p>
		28.	<ul style="list-style-type: none"> • Botanical Survey of India (BSI) has brought a number of endemic/threatened plants under cultivation (ex-situ conservation) in its and associated botanic gardens. • The names of protected species of animals, birds and plants have been mentioned at Schedule I of Wild Life (Protection) Act, 1972.
23.	<p>Indira Gandhi's government from 1971 to 1977, which included the Emergency years, passed the most Constitutional amendments (19). The next highest number was under the Atal Bihari Vajpayee government (14).</p> <p>➤ Only five constitutional amendments have ever been struck down by the Supreme Court, according to analysis by the Vidhi Centre for</p>	30.	<p>➤ World's largest international maritime exercise named RIMPAC (Rim of the Pacific) 2016 began in Pacific Ocean at Hawaii, United States. RIMPAC 2016 will see participation of navies from 26 countries. This year it is the 25th edition of biennial exercise in the series that</p>

	<p>began in 1971.</p> <p>➤ In RIMPAC 2016, three new nations are participating for the first time. They are Denmark, Germany and Italy. India is being represented by Indian Naval ship (INS) Satpura, an indigenously built guided missile stealth frigate.</p>	40.	<p>➤ CRISPR technology lets scientists selectively edit genome parts and substitute them with novel DNA fragments.</p> <p>➤ Cas9 is an enzyme that has the capacity to edit DNA.</p>
32.	There are presently 21 nuclear power reactors in India.	42.	World's first genetic editing trial on humans will be based on CRISPR–Cas9 technique.
34.	This quadrilateral will connect the four metro cities in India, i.e. Delhi, Mumbai, Kolkata and Chennai. This project is similar to Golden Quadrilateral which is a roadway project which connects the four metros by Express Ways. The Golden Quadrilateral falls under National Highways Development Project which has helped to build better road transport in India. Similarly to improve country's rail infrastructure there is a need to implement High-speed trains / Bullet trains. So to fulfill this demand the Diamond Quadrilateral project was planned.	44.	<p>The main components of the Scheme are: -</p> <ol style="list-style-type: none"> 1) Prevention 2) Rescue 3) Rehabilitation 4) Re-integration 5) Repatriation
35.	'Differentiated-Citizenship' assures that Communities (e.g. Scheduled Castes or Dalits) which had in the past been victims of social discrimination and continue to be disadvantaged were able to compete on equal terms with the rest of society.	45.	Sir Rudolph Diesel - inventor of the diesel engine.
36.	The Stockholm Convention on Persistent Organic Pollutants in 2011 added it in list of banned substances and phasing it out as an agrichemical. It is banned in over 80 nations due to its 'high toxicity.	48.	Under the Indian Constitution there is no provision to give immunity to the Prime Minister, Chief Ministers or Ministers. Under Article 361, immunity from criminal proceedings is conferred on the President and the Governor only "during his term of office." The line is clearly drawn. Constitutional heads who do not directly exercise executive powers are given immunity as heads of state. Active politicians such as Ministers, who cannot remain aloof from the hurly-burly of electoral and party politics, ethical or unethical, honest or corrupt, are not given any immunity. They are subject to penal laws and criminal liability.
37.	Participatory Notes are issued by registered foreign institutional investors (FII) to overseas investors to invest in the Indian stock market. Participatory Notes enables large hedge funds to carry out their operations without disclosing their identity. P notes have attracted significant market attention recently because of huge inflow of foreign funds into Indian stock markets through this route.	49.	Earth Overshoot Day is calculated by Global Footprint Network and is a campaign supported by dozens of other nonprofit organizations. August 8 is Earth Overshoot Day 2016, marking the day when humanity has exhausted Earth's budget for 2016. Overshoot Day is a red light warning of trouble ahead — and it is flashing five days earlier than it did last year (Aug. 13); eleven days earlier than the year before (Aug.19).
38.	Mr Zewail (DIED) had won the Nobel Prize in Chemistry in 1999 for his pioneering work in femtochemistry. He is the first Arab Scientist to win the Nobel Prize.	50.	Supreme Court in DAV College Vs State of Punjab (1971) advocated that – A linguistic minority for the purposes of Article 30(1) is one which must at least have a separate Spoken language. It is not necessary that the language should also have distinct script for those who speak it so as to be linguistic minority.
		51.	The Union Government has constituted the

	District Development Coordination and Monitoring Committee (DDCMC) for effective development and coordination of Central Government's programme. It will be known as DISHA and first meeting was held on August 13, 2016. It will monitor the implementation of 28 schemes and programmes of Union Ministry of Rural Development and other Ministries to promote synergy and convergence for greater impact. The Chairperson of the committee will be the senior most Member of Parliament (Lok Sabha) elected from the district, nominated by the Union Ministry of Rural Development.		they would be empowered and become self-sufficient human beings. This programme aims to being a difference in the lives of these young women and make them productive and contributive social beings in the society.
55.	Union Railway Ministry has unveiled 'Mission 41K' to save Rs. 41,000 crore on the Indian Railways' expenditure on energy consumption over the next 10 years.	66.	Hubble was in news due to similarity between Astrosat and NASA's Hubble Space Telescope. However, Astrosat is about 10 times smaller than Hubble
57.	It seeks to empower adolescent girls with basic life skills to acquire market driven skill training or completion of secondary education, depending on the inclination of the beneficiary.	67.	Swayamsiddha Scheme launched by Ministry of Women and Child Development of Government of India is another remarkable work b central government in achieving the women empowerment. Under the scheme special pressure is given to self-help groups (SHG), and even swayamsiddha itself means helping one self. With the SHGs govt. wants women to be enough self-sufficient that she can overcome her own problem. But due to poor conditions, family responsibility or due to some other factor women's leave their education and now they are away from mainstream. The main objective of the scheme is to empower women by educating them and bringing them into mainstream.
59.	Sports minister Vijay Goel inaugurated 'Wall of Wishes' at India Gate Lawns, near Hyderabad House in presence of renowned boxer and Olympian Mary Kom to celebrate the Olympic mood in the country.	69.	The central government has announced MUDRA Loan Scheme for Small and Marginal Fisherman. Through this scheme, the government will provide them a loan for the purchase of modern boats so that they can grow their business by venturing into deep sea.
61.	Under this policy, all district headquarters, heritage cities, and cities in the state which have more than one lakh population will be included. Waste water treated under it will be used in irrigation and agricultural work. The requirement of next 30 years will be covered in this poilcy. It will be compulsory for every house in the state to connect with sewage system in those cities which have 100% sewage system in next five years.	70.	Bringing Green Revolution to Eastern India (BGREI) is a sub-scheme of Rashtriya Krishi Vikas Yojna (RKVY) and not the other way around,
63.	The severe tropical typhoon Nida (also known as Cariana in Philippines) made landfall near Dapeng Peninsula in China's Guangdong Province.	71.	New Swarnima Special Scheme for OBC Women is the scheme by Government of India initiated to empower women from backward classes. Under the scheme women are given loan to make their financial conditions strong by finding some source of employment in the form of any small scale business. The motive is to encourage the self-employment among the women community.
65.	Kishori shakti yojna is the scheme started by central government. The main objective of the scheme is to promote and provide education and knowledge to young girls between the age of eleven and eighteen regarding their environment, social status, social problems, health, hygiene, marital status etc. It also aims to teach young girls sufficient vocational skills with the help of which	75.	The Pradhan Mantri Krishi Sinchai Yojna is the scheme introduce by central government (ministry of agriculture and farmer welfare) to improve farm

	productivity and ensure better utilization of the resources in the country with an outlay of Rs.50,000 crores for a period of 5 years (2015-16 to 2019-20) to achieve convergence of investments in irrigation at the field level.. The main objectives of PMKSY are to attract investments in irrigation system at field level, develop and expand cultivable land in the country, enhance ranch water use in order to minimize wastage of water, enhance crop per drop by implementing water-saving technologies and precision irrigation and recycling of water.		“Women in the Changing World of Work: Planet 50-50 by 2030”. The United Nations began celebrating International Women’s Day (IWD) on 8 March during International Women’s Year 1975.
77.	<ul style="list-style-type: none"> ➤ With the initiative of this scheme rural people are motivated to join self-help groups due to which sharing of ideas takes place and good network is created. ➤ Due to formation of good network and sharing of ideas there are many possibilities that good business setup will take place in rural areas. ➤ End of dependencies: By getting started with self-employment there will be economic stability in the village which will bring more opportunities in the village. 	83.	The Integrated Child Development Service (ICDS) Scheme providing for supplementary nutrition, immunization and pre-school education to the children is a popular flagship programme of the government. It is one of the world’s largest programs providing for an integrated package of services for the holistic development of the child. ICDS is a centrally sponsored scheme implemented by state governments and union territories.
78.	It is notable that the migration of the Giant Reef Manta Ray from the Indian Ocean is posing a threat to its survival along the East Coast. It is found mostly in the Pacific, Atlantic and the Indian Oceans. It tends to inhabit warm tropical or sub-tropical waters and near-shore environments.	84.	Rani Gaidinliu was born on January, 1915 in Manipur. She was too young when she became the leader of the Heraka Movement after its charismatic leader Jadonang was executed by the British. While the Heraka Movement was long aware of the Civil Disobedience Movement in British India, it was Gaidinliu who first used Gandhiji’s name and identified her people’s struggle against oppression and self-determination with the larger national movement gaining ground in India. She was honoured as a freedom fighter and awarded a Padma Bhushan. (She was not awarded the Bharat Ratna.) The title 'Rani' was conferred on her by Jawahar Lal Nehru.
79.	NCPCR is a statutory body under the CPC Act, 2005 under the administrative control of the Ministry of Women & Child Development, Government of India. The Commission's Mandate is to ensure that all Laws, Policies, Programmes, and Administrative Mechanisms are in consonance with the Child Rights perspective as enshrined in the Constitution of India and also the UN Convention on the Rights of the Child. The Child is defined as a person in the 0 to 18 years age group.	85.	The aim is also to enrich and enhance teaching and learning of Science and Mathematics at Senior Secondary level by providing free and online resources to everyone, with a focus on special incentives and support to 1000 selected disadvantaged girls per year.
80.	Mahatma Gandhi Marine National Park is located in the Andaman and Nicobar Islands. This park is affected by the snowflake coral.	86.	<ul style="list-style-type: none"> ➤ Chief economic adviser Arvind Subramanian has recommended use of genetically modified pulses to boost production in a recent report and GM pulses could be all set to be the next big thing after GM mustard. Pulses production target set for 2020 is 23.5 million tonne (mt) and 27.5 mt by 2025, while the target for average yield has been set at 900 kg per hectare by 2020 and 1,000 kg per hectare by 2025 against the current average yield of 750 kg per hectare. India is the largest producer (18.2 mt),
81.	The 2017 theme for International Women’s Day is		

	consumer (over 22 mt) and importer (3-5 mt per year) of pulses in the world.		Poaching for illegal wildlife trade and habitat loss have made these incredible creatures one of the most threatened groups of mammals in the world. All eight pangolin species are listed as threatened on the IUCN (International Union for Conservation of Nature) Red List of Threatened Species.
87.	✓The FAME India scheme was launched in 2015 under National Electric Mobility Mission Plan (NEMMP) with an aim to promote eco-friendly vehicles in the country. Its objectives is to provide fiscal and monetary incentives for adoption and market creation of both hybrid and electric technologies vehicles in the country. It will also support the hybrid or electric vehicles market development and its manufacturing eco-system in the country in order to achieve self-sustenance in stipulated period. It is being administered by the Heavy Industries Ministry. It will provide demand incentives to electric and hybrid vehicles from two-wheeler to buses.	91.	The Swarna Bharat Yojana is launched by Prime Minister Narendra Modi on 5 November 2015, Ministry of Finance Government of India. The primary purpose of the SBY is to reduce dependence on imported gold, recycle the unutilized gold in the country and most importantly, streamline the gold business in the country. At present, India is the largest consumer of gold in the world. Swarna Bharat Yojana (SBY) which covers three gold related schemes, namely, Gold Monetization Scheme, Sovereign Gold Bond Scheme and Indian Gold Coins. This three schemes will help to achieve objectives of Swarna Bharat Yojana.
88.	SPIC MACAY is a non-political nationwide voluntary movement that organises programmes of classical music and dance, folk arts, crafts, yoga, classic cinema screenings, heritage walks, etc. inside school and college campuses throughout the world to make students more aware about Indian and world heritage.	92.	The headquarters of the Animal Welfare Board of India is situated in Chennai. The Prevention of Cruelty to Animals Act extends to the whole of India, except the state of Jammu and Kashmir. Article 51(g) of the Indian Constitution gives the constitutional duty of treating animals with compassion.
89.	✓The Saksham or Rajeev Gandhi Scheme for Empowerment of Adolescent Boys is the scheme launched by central government (ministry of women and child development) for the empowerment of adolescent boys or young. The main objectives of this scheme are to facilitate, educate and empower adolescent boys so as to enable them to become self-reliant, gender-sensitive and aware citizens. ✓The scheme will cover all adolescent those who go to school or out of school in the age-group of 11-18, subdivided into the categories of 11-14 and 14-18. The scheme also helps in health, education, skill development of adolescent boy.	93.	Smile Train is a charity providing corrective surgery for children with cleft lips and palates. Headquartered in New York City and founded in 1999, Smile Train provides free corrective cleft surgery in 87 countries, training local doctors and providing hospital funding for the procedures.
90.	Pangolins, often called “scaly anteaters,” are covered with tough and overlapping scales. These burrowing mammals eat ants and termites using an extraordinarily long and sticky tongue, and are able to quickly roll themselves up into a tight ball, when threatened. Eight different pangolin species can be found across Asia and sub-Saharan Africa.	94.	UDAN is an innovative scheme to develop the regional aviation market. The objective of the scheme was “Ude Desh Ka Aam Naagrik”. Key Features. UDAN will be applicable on flights which cover between 200 km and 800 km with no lower limit set for hilly, remote, island and security sensitive regions. The scheme seeks to reserve a minimum number of UDAN seats i.e. seats at subsidized rates and also cap the fare for short distance flights.
		95.	The Natural Rate of Unemployment is the rate of Unemployment when the labor market is in

	<p>equilibrium.</p> <ul style="list-style-type: none"> • It is the difference between those who would like a job at the current wage rate and those who are willing and able to take a job. (Q2-Q1). • The Natural Rate of Unemployment will therefore include: <ul style="list-style-type: none"> • frictional unemployment • structural unemployment <p>E.g. a worker who is not able to get a job because he doesn't have the right skills</p> <ul style="list-style-type: none"> • The natural rate of unemployment is unemployment caused by supply side factors rather than demand side factors
96.	<p>The indicators used to assess represent competitiveness, efficiency and transparency in agri markets. The rankings are based on implementation of seven provisions proposed under model APMC Act, joining eNAM initiative, special treatment to fruits and vegetables for marketing and level of taxes in mandis. Maharashtra achieved first rank in implementation of various reforms as it implemented most of the marketing reforms and offered best environment for doing agribusiness.</p>
97.	<ul style="list-style-type: none"> • The Mahila Samakhya Programme (Education for Women's Equality) started in 1989 is a concrete programme for the education and empowerment of women in rural areas, particularly those from socially and economically marginalised groups.
98.	<p>MSS is a satellite based monitoring system developed under Digital India Programme by Ministry of Mines, through Indian Bureau of Mines (IBM in coordination with Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG), Gandhinagar and Ministry of Electronics and Information Technology (MEITY).</p>
99.	<ul style="list-style-type: none"> • India Newborn Action Plan (INAP) was launched in September 2014, for accelerating the reduction of preventable newborn deaths and stillbirths in the country - with the goal of attaining 'Single Digit Neo-natal Mortality Rate (NMR) by 2030' and 'Single Digit Still Birth Rate (SBR) by 2030'.

100 . India's position improved to 39th rank (2016) in the World Economic Forum's latest Global Competitiveness Index.

Crackingias.com

SERIOUS IAS ASPIRANTS
» CAN JOIN US «

9884554654

Raja Sir's

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

SOLID 60 - PRELIMS 2017

JET FAST Classes from April 20, 2017
@ Rs. 1000/- ONLY
A SURE SHOT COURSE

ONLY UNIQUE COURSE @ CHENNAI
30 HOURS CLASS

- * General Science 900 only
- * India Year Book if you Join before
- * Economic Survey April 10 2000
- * PIB Coverage Potential questions

Target to Clear Prelims
Not to Top Prelims

CALL/SMS/ Whats App Your Name to : 98845 54654

2nd Floor. New.No.59 (Old no. 1228),18th Main Road,
Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY

Answers

1.	D	11.	D	21.	A	31.	A	41.	C	51.	D	61.	C	71.	B	81.	A	91.	A
2.	D	12.	a	22.	C	32.	A	42.	B	52.	C	62.	B	72.	C	82.	B	92.	A
3.	b	13.	C	23.	B	33.	B	43.	B	53.	B	63.	C	73.	B	83.	C	93.	A
4.	D	14.	B	24.	A	34.	A	44.	C	54.	C	64.	B	74.	B	84.	D	94.	A
5.	C	15.	C	25.	A	35.	C	45.	C	55.	C	65.	C	75.	C	85.	C	95.	C
6.	D	16.	A	26.	D	36.	A	46.	C	56.	B	66.	A	76.	B	86.	B	96.	C
7.	B	17.	A	27.	D	37.	C	47.	B	57.	C	67.	B	77.	C	87.	B	97.	A
8.	A	18.	B	28.	B	38.	D	48.	C	58.	D	68.	B	78.	C	88.	C	98.	D
9.	B	19.	A	29.	C	39.	A	49.	D	59.	B	69.	C	79.	C	89.	A	99.	B
10.	A	20.	C	30.	C	40.	C	50.	D	60.	D	70.	C	80.	A	90.	A	100.	B

Explanations

3. In 1846, the minimum marriageable age for a girl was only 10 years. In 1891, through the enactment of the Age of Consent Act, this was raised to 12 years. In 1930, through the Sharda Act, the minimum age was raised to 14 years. After independence, the limit was raised to 18 years in 1978.
4. World's Women report is prepared by the Statistics Division of the UN Department for Economic and Social Affairs (UN DESA). Nearly two-thirds of the world's illiterate adults are women, a proportion that has remained stubbornly unchanged for the past 20 years. Of the 781 million adults over the age of 15 estimated to be illiterate, 496 million were women. Women made up more than half the illiterate population in all regions of the world.
10. Annexation of Hyderabad - Operation Polo
11. She attended the Socialist Congress at Stuttgart in 1907 as a 'fraternal delegate'. And it was there that she, after her thrilling speech, hoisted the Indian flag in Europe. The flag was tricolour and was inscribed with Vandematram. This flag symbolizing the 'Indian National Flag' had also been designed by her. It is said that she prepared this flag out of one of her saris.
12. 'Vesara' gained popularity in Deccan. It is the fusion of Nagara and Dravidian style. The Later Chalukya Dynasty and the Hoysalas used it extensively. It gave prominence to elaborate sculptures on the walls, depressed ceilings, lathe-turned pillars and fully sculptured vimanas. Temples at Belur, Halebid and Somanathpura are specimens.
15.
 - Sarin is a human-made chemical warfare agent classified as a nerve agent.
 - Sarin is also known as GB.
 - Sarin is not found naturally in the environment. It is a man-made toxin.
 - Because sarin vapor is heavier than air, it will sink to low-lying areas and create a greater exposure hazard there.
 - Sarin, along with certain pesticides and other nerve agents, belongs to a family of chemicals called organophosphates.
 - Like other nerve agents, sarin targets an enzyme within the body's neuromuscular junctions, where nerves meet muscles. Usually, this enzyme deactivates the nerve-signaling molecule acetylcholine. But sarin stops this deactivation by blocking the enzyme.
17. Mount Abu in Rajasthan is known for the Dilwara temple dedicated to Jain tirthankaras. These were built in pure white marble and adorned with exquisite sculpture. These were built under the patronage of Solanki rulers.
22. ✓ Quotas are denominated in Special Drawing Rights (SDRs), the IMF's unit of account. The largest member of the IMF is the United States, with a current quota of SDR 42.1 billion (about \$58 billion), and the smallest member is Tuvalu, with a current quota of SDR 1.8 million (about \$2.47 million).
24. Treasury Bills are short term (up to one year) borrowing instruments of the Government of India which enable investors to park their short term surplus funds while reducing their market risk. These are discounted securities and thus are issued at a discount to face value. The return to the investor is the difference between the maturity value and issue price. Any person in India including Individuals, Firms, Companies, Corporate bodies, Trusts and Institutions can

purchase Treasury Bills.	
26. Elastin is probably the most resistant of all body proteins to chemical changes. Thousands of year's old 'mummies' still have their arteries intact due to, well-preserved elastin fibres.	potassium chlorate and antimony trisulphide bound together by glue. The striking surface on the matchbox is a mixture of red phosphorus and powdered glass held by glue. When a matchstick is struck against the coated surface of the matchbox, some heat is produced that makes the chemicals in the match head react. The heat of this reaction ignites the wood.
29. So far, the country has seen 67 normal annual budgets; while there have been 11 interim budgets and four special- occasion budgetary proposals, also known as mini budgets. The first Vote on Account in India was presented in the year 1952-53.	51. Commercial borrowings is the largest component of external debt with a share of 38.4%, followed by NRI deposits (24.8%) and short-term trade credit (16.6%). The share of short-term debt in total debt witnessed a decline over the as FH investment in Government treasury bills was phased out.
33. Under Article 82 of the Constitution, the Parliament by law enacts a Delimitation Act after every census. After coming into force commencement of the Act, the Central Government constitutes a Delimitation Commission. This Delimitation Commission demarcates the boundaries of the Parliamentary Constituencies as per provisions of the Delimitation Act. The present delimitation of constituencies has been done on the basis of 2001 census figures under the provisions of Delimitation Act, 2002. Notwithstanding the above, the Constitution of India was specifically amended in 2002 not to have delimitation of constituencies till the first census after 2026. Thus, the present Constituencies carved out on the basis of 2001 census shall continue to be in operation till the first census after 2026..	52. Currently, only seven States follow the bicameral system — Andhra Pradesh, Telangana, Bihar, Jammu and Kashmir, Karnataka, Maharashtra and Uttar Pradesh. According to Article 169 of the Indian Constitution, the state legislative assembly has to pass a resolution demanding creation or abolition of the council. The Parliament can then make it a law by passing it like any ordinary bill. It doesn't require any amendment to the Constitution.
35. The Cabinet Mission Plan was accepted by both Congress and the Muslim League though both expected something better. The Congress did not like the provision of grouping the provinces. And the main grouse with the League was that it did not meet their demand for Pakistan. In July 1946 the election to the Constituent Assembly was held all over the country. The Congress secured 205 seats and the League captured 73 seats while the Sikhs got for themselves 4 seats.	55. Pahul was the sanctified water offered by a master to the pupil or shishya as a token of his being accepted as a trainee on his march to godliness.
39. Sulfur while also serving as a fuel, lowers the temperature required to ignite the mixture, thereby increasing the rate of combustion. Black powder is composed of charcoal, sulfur and a nitrate salt. The charcoal and sulfur serve as fuel and the nitrate is the oxidizing agent.	58. During 1938, when Subhash Chandra Bose was its president the Congress set up a National Planning Committee under the chairmanship of Jawaharlal Nehru.
50. The head of matchstick consists of a mixture of	61. The Hon'ble Speaker, Lok Sabha is the President of all the Forums except the Parliamentary Forum on Population and Public Health wherein the Hon'ble Chairman, Rajya Sabha is the President and Hon'ble Speaker, Lok Sabha is the Co-President. The term of the office of members of the Forums is co-terminus with their membership in the respective Houses.
	66. The major constituents of the capability approach are functionings and capabilities.1 Functionings are the —beings and doings of a person, whereas a person's capability is —the

various combinations of functionings that a person can achieve. Capability is thus a set of vectors of functionings, reflecting the person's freedom to lead one type of life or another.

68. - The related Nobel Memorial Prize in Economic Sciences was established by Sweden's central bank in 1968.
 - Nobel Prize in Physiology or Medicine for 2015 will be shared by William C Campbell and Satoshi Omura jointly and by Youyou Tu .
 - William C Campbell and Satoshi Omura found a new way of tackling infections caused by roundworm parasites. Parasitic worms affect a third of the world's population and cause a number of illnesses, including river blindness and lymphatic filariasis.
 - River blindness is an eye and skin disease that ultimately leads to blindness. Lymphatic filariasis, also known as elephantiasis, causes painful swelling of the limbs.
 - Youyou Tu shares the prize for her discovery of a therapy against malaria.
72. There was a deadlock with the congress since 1939 resignations. On June 14, 1945, Lord Wavell came out with a plan which had the following schemes: A new Executive Council was to be formed at the Centre in which all but the Viceroy and the Commander in Chief will be Indians. This executive council was for the time being till a new permanent constitution could be agreed upon and come to force. All portfolios except the Defense would be held by the Indian Members.
73. A phenomenon called **Rayleigh scattering** causes light from the Sun to bounce off tiny particles in the atmosphere and scatter in different directions. Sunlight consists of many different colours: from red, which has the longest wavelength of all visible light, through to violet at the blue end of the spectrum, which has the shortest wavelength. Due to this short wavelength, blue light is scattered more effectively than other colours, and this is why the sky normally appears blue to us. At sunrise or sunset, however, when the Sun is low on the horizon, the light rays must pass through more of the atmosphere – and therefore bounce off more molecules – than at other times of day. This means that more blue light gets scattered away before the light reaches your eyes. Other colours – such as red, orange and yellow – can therefore continue to pass through the atmosphere unaffected, creating beautiful colours at the start and end of the day.
74. ✓ According to this thesis, the National Congress could play 'a great part and a foremost part in the work of realizing the anti-imperialist people's front.'
75. ✓ Nehru devoted a whole chapter in his Autobiography to gently combating some of the basic aspects of Gandhian ideology. At the same time, he fully appreciated the radical role that Gandhiji had played and was playing in Indian society.
76. The Nalogonda technique (named after the village in India where the method was pioneered) employs flocculation principle. Defluoridation of water by the Nalgonda technique is a commonly used household process in areas of endemic fluorosis in villages around Nalgonda.
84. The Constitution of India was adopted on 26 November, 1949 and the hon'ble members appended their signatures to it on 24 January, 1950. In all, 284 members actually signed the Constitution. The Constitution of India came into force on 26 January, 1950. On that day, the Assembly ceased to exist, transforming itself into the Provisional Parliament of India until a new Parliament was constituted in 1952.
85. The vote-on-account is normally valid for for two months and is in operation till the full Budget is passed. But during an election year, it may be extended for a period more than two months if it is anticipated that the main demands and the Appropriation Bill will take longer than two months to be passed by the House.
86. Kabir adopted a style called the ultabasi, which consisted of paradoxes and enigmas. Rajatarangini, ("River of Kings") historical chronicle of early India, written in Sanskrit verse

by the Kashmiri Brahman Kalhana in 1148. Jonaraja was a Kashmiri historian and Sanskrit poet. His Dvitya Rajatarangini is a continuation of Kalhana's Rajatarangini and brings the chronicle of the kings of Kashmir down to the time of the author's patron Zain-ul-Abidin.

91. Lord Lytton arranged the Delhi Durbar at a time when the larger part of India was in the grip of famine. He passed the Vernacular Press Act which curbed the liberty of the Indian Press. His Arms Act was a means to prevent the Indians from keeping arms. All these measures created widespread discontent among the Indians.
96. ➤ Pandit Ishwar Chandra Vidyasagar protested against child marriage and favoured widow remarriage which was legalised by the Widow Remarriage Act (1856).
➤ Raj Rammohan Roy is most remembered for helping Lord William Bentinck to declare the practice of Sati a punishable offence in 1829.
100. Parliamentary Secretary is 'trainee minister'. For this young politicians are appointed so that they get experience of running the ministry. They assist the ministers in parliamentary work.

Crackingias.com

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

9884554654

Raja Sir's

CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

SOLID 60 - PRELIMS 2017

JET FAST Classes from April 20, 2017

@ Rs. 1000/- ONLY

A SURE SHOT COURSE

ONLY UNIQUE COURSE @ CHENNAI
30 HOURS CLASS

- * General Science 900 only
- * India Year Book if you Join before
- * Economic Survey April 10 2000
- * PIB Coverage Potential questions

Target to Clear Prelims
Not to Top Prelims

CALL/SMS/ Whats App Yout Name to : 98845 54654

2nd Floor, New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY

Answers

1. C	11. C	21. A	31. B	41. A	51. C	61. A	71. D	81. D	91. C
2. A	12. C	22. D	32. A	42. B	52. A	62. A	72. D	82. C	92. A
3. D	13. D	23. D	33. B	43. B	53. B	63. D	73. D	83. D	93. D
4. C	14. A	24. A	34. A	44. A	54. B	64. D	74. A	84. B	94. D
5. A	15. A	25. B	35. B	45. A	55. C	65. B	75. A	85. D	95. C
6. A	16. C	26. B	36. C	46. A	56. C	66. B	76. C	86. C	96. C
7. A	17. C	27. C	37. D	47. C	57. A	67. C	77. D	87. A	97. B
8. C	18. C	28. A	38. D	48. A	58. D	68. B	78. C	88. A	98. A
9. C	19. A	29. A	39. B	49. B	59. A	69. C	79. D	89. C	99. C
10. D	20. B	30. B	40. A	50. C	60. B	70. D	80. C	90. D	100. B

Explanations

- In a used oil bacteria feeds on food particles left in the oil. These often lead to the growth of Clostridium botulinum, which causes botulism, a potentially fatal food poisoning. Used oil contains free radicals, molecules that can damage cells and lead to increased cancer risk, as well as affect the quality of your food.
- Islamic Military Alliance to Fight Terrorism (IMAFI) comprises 39 Islamic countries with notable omissions like Indonesia, Afghanistan, Iran, Iraq, Syria, and Tajikistan. The alliance with its military Command Headquarters based in Riyadh was announced as an Inter- Governmental Alliance first by Saudi Defence Minister Muhammad bin Salman on 15 December 2015. Its mandate was to counter terrorism from organizations such as ISIL and their other variants.
- “Brent” actually refers to oil from four different fields in the North Sea: Brent, Forties, Oseberg and Ekofisk. Crude from this region is light and sweet, making them ideal for the refining of diesel fuel, gasoline and other high-demand products. And because the supply is water-borne, it's easy to transport to a distant locations. Brent is the reference for about two-thirds of the oil traded around the world.
- Once constituted, boundaries of the National Park can be altered only on a resolution of the State Legislature. A National Park is an area established under section 35 (4) of the Wildlife (Protection) Act, 1972 and no right is allowed within the National Park. Grazing is prohibited in these areas and the general public is legally restrained from destroying, exploiting, or removing any wildlife from the National Park, or destroying or damaging the habitat of any wild animal, or depriving any wild animal of its habitat in the Park. National Parks have a clearly defined core and buffer zones. Whereas, the core zone is free from any local rights and acts as sanctum sanctorum to allow wildlife to enjoy protected natural habitat, the buffer zone absorbs most of the impact of human activities.
- Delimitation Commission is appointed by President of India & works in collaboration with Election Commission.
- Under 'Due Process' - the state must respect all of the legal rights that are owed to a person. Judiciary can interpret the laws as per the fundamental principles of a liberal democracy - justice, equality, liberty, fairness, etc.
In Maneka Gandhi vs Union of India, the Supreme Court of India held that the words "procedure established by law" doesn't mean any random procedure laid down by Parliament, but must be interpreted in the lines of the "due process" phrasing in the American Constitution. Procedure which deprives a person of life or personal liberty must be reasonable and just, and must satisfy the ends of Justice and the collective conscience. This is what prevented tyrannical excesses from being committed by the State.
- The world's first 'Gender Literature Festival' - in Patna in the second week of April. The Gender Resource Centre of Bihar's Women Development Corporation will be organizing the festival.
- Ranade was a founder of the Social Conference movement, directing his social reform efforts against child marriage, the shaving of widows' heads, the heavy cost of marriages and other social functions, and the caste restrictions on traveling abroad, and he strenuously advocated widow remarriage and female education. He was one of the founders of the Widow Marriage Association in 1861.
- The Wild Ass Sanctuary of the Little Rann of Kutch, spreading across nearly 5000 square kilometers of the Little Rann, is the only place on the earth where the endangered Indian Wild Ass (*Equus hemionus khur*), known locally as the

ghudkhar, still lives. The only other two sub-species of wild ass live in the high arid plateaus of Tibet, making this the most accessible place to visit wild ass in their natural environs.

12. ✓ Pteris vittata is a hyperaccumulator of arsenic. It has been praised for its potential to remediate soils contaminated with arsenic. Even though it has the beneficial quality of being a natural bioaccumulator, it is still considered an invasive plant and should be managed as such.

13. In years gone by, economic risks dominated the responses, especially in 2008, 2009 and 2010 at the height of the financial crisis. But for the past two years, environmental and societal threats have risen to the top.

14. Why massive detector and underground laboratory?
 A question can be risen on the relevance of massive detector and underground laboratory. The reason is that interact of neutrinos is very weak with the surroundings. Even, a stream of neutrinos is being passed through our body every passing minute without leaving a trace. Hence, due to weak interact of neutrinos, it is impossible to detect them. Therefore, a barrier of at least 1 KM is required to block out other radiation and particles, such as muons from cosmic rays (The Hindu, 2015). To overcome this challenge, a tunnel will be constructed at a depth of 1,300 meters below the peak and which is 2 km by 7.5m by 7.5m. This will lead to a chamber that will house the detector. (The Hindu, 2015). In this depth, laboratory will be able to keep itself away from all the trillions of neutrinos produced in the atmosphere which otherwise can choke an over-the-ground detector.

15. Taxol is used for the treatment of breast, ovarian, lung, bladder, prostate, melanoma, esophageal, as well as other types of solid tumor cancers. A species of Himalayan yew tree (Pacific yew tree - Taxus brevifolia) that is used to produce Taxol, a chemotherapy drug to treat cancer, is being pushed to the brink of extinction by over-harvesting for medicinal use and collection for fuel.

16. Skava, a Silicon Valley based e-commerce startup acquired by Infosys, developed Skava Commerce to allow businesses to leverage flexible cloud-based microservices and white label applications to quickly launch new offerings, improve conversion rates of digital channels, create highly responsive digital

properties, and more. The platform can and easily integrate into existing technologies, while also providing a future-ready architecture that will enable next generation shopping experiences leveraging artificial intelligence (AI) and machine learning, natural language processing and virtual reality (VR).

18. • The Army has completed laying an irrigation pipeline for residents of villages in the Demchok region of Eastern Ladakh despite a face-off last week with Chinese troops over the work.

• The irrigation project was being built under the Mahatma Gandhi National Rural Employment Guarantee Scheme to link a village with a “hot spring”.

• In order to protest the laying of the pipeline, Chinese troops attempted to erect a fibre-reinforced plastic (FRP) hut on the border on Friday. However, the Army and the Indo-Tibetan Border Police (ITBP) did not allow that.

• Demchok is the first instance when the Chinese soldiers have come deep inside the Indian Territory to protest against an ongoing construction project.

20. NITI Aayog launched the second version of the India Energy Security Scenarios 2047 calculator (IESS 2047), an open source web based tool. The tool aims to explore a range of potential future energy scenarios for India, for diverse energy demand and supply sectors leading up to 2047. It explores India's possible energy scenarios across energy supply sectors such as solar, wind, bio fuels, oil, gas, coal and nuclear and energy demand sectors such as transport, industry, agriculture, cooking and lighting appliances. The model allows users to interactively make energy choices, and explore a range of outcomes for the country-from carbon dioxide emissions and import dependence to land use.

The UK Department for Energy and Climate Change (DECC) is the initiative partner with NITI Aayog in this project. M

21. For moving censure motion is that it is needed to state the reasons for its adoption in Lok Sabha. It can be moved against an individual minister as well as the entire council of ministers. The objective is to censure the minister(s) for specific policies or actions. Once passed, it does not affect the fate of Council of Ministers.

For a no confidence motion, there is no need to

<p>state the reasons. No-confidence motion cannot be moved against a single minister or a group of select ministers but ONLY against the entire council of ministers. If no-confidence motion is passed, the CoM will have to resign.</p>	<p>Secretariat. The Secretariat co-ordinate and facilitate the BirdLife International strategies, programmes and policies. ✓ Bombay Natural History Society is the Partner of BirdLife International in India.</p>
<p>22. Two-Plus-Two Dialogue is the framework which was agreed to establish by the Prime Ministers of Japan and India at the Annual Summit in Delhi, December 2009, and endorsed in the Action Plan to advance security cooperation between Japan and India.</p>	<p>26. ✓ The President of India, Shri Pranab Mukherjee marked his 81st birthday by launching a '100 Million for 100 Million' Campaign organized by the Kailash Satyarthi Children's Foundation at Rashtrapati Bhavan today (December 11, 2016). ✓ Speaking on the occasion, the President said that he was delighted to launch the campaign led by Nobel peace prize winner, Shri Kailash Satyarthi, from Rashtrapati Bhavan, an institution which symbolises our Republic's commitment to democracy, pluralism and secularism.</p>
<p>23. • The closed fuel cycle, which involves recycling the nuclear waste as new fuel, in the case of the MBIR project, essentially signifies research on a sodium-cooled Generation 4 fast reactor to design an advanced fast neutron reactor for use in nuclear power plants. • A fast neutron reactor, also known simply as a fast reactor, is a type in which the nuclear fission chain reaction is sustained by fast neutrons. Such a reactor needs no neutron moderator like normal water, which serves such a purpose in thermal reactors.</p>	<p>27. • Cattle egret which is widely found in India is a natural scavenger. A study from Kerala says that the wetland egret, <i>Bubulcus ibis</i>, can be used as bio-control agent in solid-waste dumping sites. • These birds are widely exploiting the solid waste which is rich with the larvae of disease spreading house flies (<i>Musca domestica</i>) and blue bottle flies (<i>Calliphora</i> species).</p>
<p>24. ✓ Codex Alimentarius is an international food safety reference agency run by the WHO and FAO. ✓ Ascorbic acid or Vitamin-C is considered a healthy alternative to potassium bromate. Glucose oxidase is another option approved by FSSAI in 2015. Other food improvers and flour treatment agents approved by law include ammonium persulphate, ammonium chloride and amylases.</p>	<p>28. Reserve Bank of India (RBI) has been caught in the 'impossible trinity' trilemma where it has to tackle three concerns all at once — free capital flows, stable exchange rate, and independent monetary policy. The trilemma propped up in the context of the Mundell-Fleming Model developed in the 1960s which analysed the effectiveness of monetary policy in an open economy (free capital movement) under different exchange rate regimes. A central bank may find it difficult to pursue all three targets at the same time and has to pick any two.</p>
<p>25. BirdLife International is the world's largest nature conservation Partnership. Together we are 119 BirdLife Partners worldwide - one per country or territory. Each Partner is an independent not-for profit, non-governmental organization or NGO. Most Partners are best known outside of the Partnership by their organization's name. This allows each Partner to maintain its individual national identity within the global Partnership. BirdLife Partners work together in a collaborative, coordinated fashion across national boundaries to build a global Partnership of national conservation organizations. ✓ The BirdLife partnership has 6 Regional BirdLife Coordination Offices throughout the world and a Global Office in Cambridge, UK - together known as —The BirdLife International</p>	<p>29. Bharat Stage emission norms (equivalent to Euro norms for four-wheeled vehicles) were first introduced in 2000. These norms specify the maximum permissible emission limit for carbon monoxide (CO), hydrocarbons (HC), nitrous oxides (NO_x) and particulate matter (PM).</p>
	<p>30. ✓ US researchers have developed a vaccine for chikungunya fever made from an insect-specific virus that does not have any effect on people, making the vaccine safe and effective. ✓ The study indicated that the vaccine quickly</p>

produces a strong immune defense and completely protects mice and nonhuman primates from disease when exposed to the chikungunya virus.

32. Ascorbic acid or Vitamin-C is considered a healthy alternative to potassium bromate. Glucose oxidase is another option approved by FSSAI in 2015. Other food improvers and flour treatment agents approved by law include ammonium persulphate, ammonium chloride and amylases.

33. Right to Choose guarantees individuals the right to personal autonomy, which means that a person's decisions regarding his or her personal life are respected so long as he/she is not a nuisance to the society.

The Bihar government issued a notification under the Bihar Excise Act, 1915 banning the manufacture, sale, and distribution, as well as the possession and consumption of alcohol. It also reversed the burden of proof, requiring the accused to prove her innocence to avoid imprisonment. Supreme Court, however, has stayed the operation of the Patna High Court judgment, allowing the continuation of a draconian prohibition law in Bihar.

34. Appellate jurisdiction of SC includes not only civil and constitutional matters but also Criminal matters and appeal by special leave.

36. A colour blind boy can't receive a colour blind 'gene' from his father, even if his father is colour blind, because his father can only pass an X chromosome to his daughters.

A colour blind daughter therefore must have a father who is colour blind and a mother who is a carrier (who has also passed the faulty 'gene' to her daughter). If her father is not colour blind, a 'carrier' daughter won't be colour blind. A daughter can become a carrier in one of two ways – she can acquire the 'gene' from a carrier mother or from a colour blind father.

This is why red/green colour blindness is far more common in men than women.

Blue-yellow color blindness is a dominant not sex linked trait, which means both men and women are equally affected.

38. ✓ The most harmful components of smog are ground-level ozone and fine airborne particles.
 ✓ Smog is caused by heavy traffic, high

temperatures, sunshine and calm winds. These are few of the factors behind increasing level of air pollution in atmosphere.

- ✓ **During the winter months when the wind speeds are low**, it helps the smoke and fog to become stagnate at a place forming smog and increasing pollution levels near the ground closer to where people are respiring. It hampers visibility and disturbs the environment.

- ✓ Smog is formed by reaction of Volatile organic compounds (VOC) with nitrogen oxides in the presence of sunlight. One of the primary constituent of smog is ozone gas which is formed by the reaction of Volatile organic compounds with nitrogen oxides. Health impact of smog: Heavy smog results in decrease in natural vitamin D production leading to rise in cases of Rickets.

39. The first-ever joint military exercise "Pratihar-I" was held between Nepal and China on February 10, 2017.

41. District Rural Development Agencies (DRDAs) are district level development execution and monitoring agencies created under the Indian Societies Registration Act.

42. The Cauvery Wildlife Sanctuary is located in Mysore district of Karnataka.

43. The Central Government on Tuesday launched the biggest LCDC - Leprosy case detection campaign in the country.

45. United Nations International Telecommunication Union

46. ✓ The Diamantine Fracture Zone is an area of the south-eastern Indian Ocean seafloor. It has a range of ridges and trenches. It lies to the south of the mid-eastern Indian Ocean features of the Wharton Basin and Perth Basin, and to the south west of the Naturaliste Plateau.

47. The Biotech-KISAN is a Farmer centric scheme launched by of the Department of Biotechnology, where scientists will work in sync with farmers to understand problems and find solutions.

It is developed in consultation with the farmers. Soil, Water, Seed and Market are some key points that concern small and marginal farmers.

Biotech-KISAN aims to link farmers, scientists and science institutions across the country in a network that identifies and helps solve their problems in a

<p>cooperative manner. Biotech KISAN will connect farmers with science in the 15 agro-climatic zones of the country in a manner, which constantly links problems with available solutions.</p>	<p>“Important Bird Area” of India by the Bombay Natural History Society.</p>
<p>48. ‘IMPRINT India’, is a Pan-IIT and IISc joint initiative to develop a roadmap for research to solve major engineering and technology challenges in ten technology domains relevant to India. It is a single window mechanism to ensure higher funding support for research in areas of immediate relevance to Indian society.</p>	<p>52. The collegium system was created by two judgements of the Supreme Court in 1990s in which a body of senior apex court judges headed by the Chief Justice of India selected persons and recommended their names for appointment as judges.</p>
<p>49. Concentrated Solar Thermal systems (CSP), are not the same as Photovoltaic panels; CSP systems concentrate radiation of the sun to heat a liquid substance which is then used to drive a heat engine and drive an electric generator. This indirect method generates alternating current (AC) which can be easily distributed on the power network. ✓ Photovoltaic (PV) solar panels differ from solar thermal systems in that they do not use the sun’s heat to generate power. Instead, they use sunlight through the ‘photovoltaic effect’ to generate direct electric current (DC) in a direct electricity production process. The DC is then converted to AC, usually with the use of inverters, in order to be distributed on the power network.</p>	<p>53. • SWIFT is a cooperation of global banks formally known as the Society for Worldwide Interbank Financial Telecommunication, and its transaction system was used as a conduit for one of the largest cyber bank heists in the history. • SWIFT stands for the Society for Worldwide Interbank Financial Telecommunications. It is a messaging network that financial institutions use to securely transmit information and instructions through a standardized system of codes.</p>
<p>50. The Electricity Distribution Company and Energy Efficiency Services Limited (EESI) a public sector body of Government of India are implementing the programme. The main objective is to promote efficient lighting, enhance awareness on using efficient equipment which reduce electricity bills and help preserve environment.</p>	<p>55. Terahertz radiation which is a band of electromagnetic radiation between microwaves and infrared light. Terahertz radiation can differentiate between ink and blank paper in manner that X-ray or ultrasound does not, offering much better depth resolution</p>
<p>51. • The Kolleru Lake is formed by nearly 70 distributaries of the Krishna and the Godavari that drain into a depression. • Kolleru has over 100 resident bird species and an equal number of migrant species from across Eurasia. In addition to spot billed or grey pelican, herons, storks, teals and flamingos are found here, particularly during winter. • It is also notable that Vaddis community lives near the Kolleru Lake. • Kolleru was accorded a sanctuary status under the Wildlife Protection Act of 1972. Currently, it covers an area of 308 sq km. It was designated a Ramsar site in 2002. It was also identified as an</p>	<p>56. The biggest emitters of HFCs are mobile air conditioning (MAC) systems in cars (66% of all HFC emissions according to 2002 data from US EPA and ADEME); followed by commercial refrigeration, and particularly supermarket refrigeration (23%); and finally stationery air conditioning systems (6%) such as found in retail units and offices. HFC is a potent greenhouse gas. US is desperate to bring HFC under ambit of Montreal protocol despite of the fact that it has no implications for Ozone layer. India is pushing for its inclusion under framework to be agreed at Paris conference, which will be more stringent selectively for developed countries (unlike Montreal protocol).</p>
	<p>57. Mawlynnong, Meghalaya</p>
	<p>60. ✓ In the sedimentary type of cycle major reservoir is the lithosphere, from which the elements are released by weathering. ✓ The sedimentary types are best exemplified by Phosphorus, Sulphur, and Iodine cycles. In these cycles a little portion of the supply may get lost, as in the deep ocean sediments, and thereby</p>

becomes inaccessible to organisms and to continual cycling.

61. It is a \$500 million dollars initiative launched by World Bank.
- It is a market-based scheme designed to help developing countries pay for emission reductions and combat climate change.
 - Germany, Norway, Sweden and Switzerland have jointly pledged an initial \$250 million to get the Transformative Carbon Asset Facility (TCAF).
 - The facility will contribute to helping countries implement their emission reduction plans are called Intended Nationally Determined Contributions (INDCs).
62. BS is based on Euro norms. Euro norms define the maximum limit of pollutant that a vehicle can emit. (CO₂, nitrogen oxide, sulfur and suspended particulate matter). If vehicle emits more than this limit, it cannot be sold in Europe. In India, we follow Euro norms under the label “Bharat stage” norms. We are gradually implementing them in more and more cities
63. SLNP scheme- Prime Minister Shri Narendra Modi launched 100 cities National Programme on 5th January to convert conventional street and domestic lights with energy efficient LED lights. Under Street Light National Programme (SLNP), replacement of 3.5 crore conventional street light will result in saving of 9,000 million units annually. Total cost savings of municipalities every year will be Rs 5,500 crore. Keeping future generations in mind, the revolutionary step is taken to conserve as much energy as possible. Energy Efficiency Services Limited (EESL) has been designated as the implementing agency. The initiative is part of the Government's efforts to spread the message of energy efficiency in the country.
65. The mission focuses on sustainable utilization of renewable biological resources for food, bio-based products and bio-energy through knowledge-based approaches.
67. The President's Rule can be extended for a maximum period of three years with the approval of the Parliament, every six months. It is notable that beyond one year, the President's Rule can be extended by six months at a time only when the following two conditions are fulfilled:
- A proclamation of National Emergency should

be in operation in whole of India, or in whole or any part of the state.

- The Election Commission must certify that general elections to the Legislative Assembly of the concerned state cannot be held on account of difficulties.
68. **'Plug & Play' model** means winners of the contract can start implementing the project immediately, without worrying about all the regulatory clearances and coal or gas linkages — the biggest causes for so many stalled projects in the country.
69. In December 1929, a bomb exploded under the Viceroy Irwin's special train, from which he, however, escaped. Gandhiji thanked God for the Viceroy's narrow escape and condemned in his article “The Cult of the Bomb” the revolutionaries for the act. It was in reply to Gandhiji's article that this outstanding document was written by Bhagawati Charan Vohra in consultation with Chandra Shekhar Azad. It was drafted in the room located above the Soloman Company, Aminabad, Lucknow, which was used as a den exclusively by Chandra Shekhar Azad, Bhagawati Charan and Yashpal.
70. ✓ The PAs are constituted and governed under the provisions of the Wild Life (Protection) Act, 1972. There are 4 categories of the Protected Areas viz, National Parks, Sanctuaries, Conservation Reserves and Community Reserves. Ecosensitive Zones are areas around national parks and sanctuaries which are not part of Protected Areas.
71. FAME India - Faster Adoption and Manufacturing of Hybrid and Electric vehicles in India - is part of the National Electric Mobility Mission Plan.
72. The Syrian Civil Defense, known commonly as the White Helmets, is a volunteer corps of Syrians who act as first responders in the Syrian civil war. The group which was established in 2013 is carrying out search-and-rescue operations to save the maximum number of lives. The group has rescued thousands of people—a feat that earned them the Right to Livelihood Award, commonly known as the “Alternative Nobel Prize,” in recognition for their “outstanding bravery, compassion and humanitarian engagement in rescuing civilians.” It has also put them in contention for the Nobel Peace Prize.

- | | |
|--|---|
| <p>75. • Energy sector was the prime contributor to emissions, with 71% of total emissions in 2010. Energy sector includes - electricity production, fuel combustion in industries, transport and fugitive emissions. Industrial processes and product use contributed 8% and agriculture and waste sectors contributed 18% and 3% respectively to the national Green House Gases - GHG inventory.</p> | <p>who have influenced and strengthened various biodiversity-related efforts, as well as raised awareness about biodiversity.</p> |
| <p>76. A committee set up under the Department of Economic Affairs has recommended the creation of a statutory body that will standardize data from all financial sector regulators in a single database and will provide analytical insights based on the data.</p> | <p>87. • Rare Himalayan griffon is also known as Himalayan vulture.
 • The Himalayan griffon was previously believed to belong to the upper Himalayas and was presumed to stray till the Gangetic plains at the most.
 • In recent years there were sightings in Kerala, Karnataka, Andhra Pradesh, Goa, etc.
 • Such long-distance straying from home territory also points towards a lack of navigational experience in immature birds. All individuals of the species previously reported as sighted from south India, including the one spotted in Goa, are the immature ones.
 • Himalayan griffons do not breed in the first three years, and hence juvenile birds of the species do not remain in breeding grounds to avoid competition.</p> |
| <p>77. Bio-Digester Toilet System is based on (methanogenic bacteria) anaerobic biodegradation of organic waste by unique microbial consortium. In this system, faecal matter is decomposed to bits and converted into water and little of carbon dioxide & methane gas. It is totally maintenance-free system and does not require any sewerage system.</p> | <p>88. Biotech Labs in Senior Secondary Schools (BliSS) is a scheme to encourage students to consider careers in biotechnology. This scheme envisages establishing labs in North-Eastern States viz. Assam, Arunachal Pradesh, Meghalaya, Mizoram, Tripura, Nagaland, Sikkim and Manipur.</p> |
| <p>79. El Nino Modoki has recently been identified as a coupled ocean-atmosphere phenomenon in the tropical Pacific Ocean and has been shown to be quite different from the canonical El Nino/Southern Oscillation (ENSO) in terms of its spatial and temporal characteristics as well as its teleconnection patterns.</p> | <p>89. As of January 2016, there are 48 Tiger Reserves in India. Corbett National Park was the first national park of India to be covered under Project Tiger on April 1st, 1973. Nagarjunsagar-Srisailem is the largest tiger reserve in terms of Area, while currently, Bor Tiger Reserve in Maharashtra is smallest in area. Manas (Assam), Similipal (Orissa), Sunderbans (West Bengal) are Biospheres having Tiger reserves. Manas Tiger Reserve is the only tiger reserve which is also a World Heritage Site. After Reorganization of Andhra Pradesh, the Nagarjunsagar-Srisailem Tiger Reserve is to be divided among the two states and the Telanaga Part is to be known as Amrabad Tiger Reserve as India's 45th Tiger Reserve.</p> |
| <p>81. • Office of Attorney General is constitutional. The office of solicitor general and that of additional solicitor general is not constitutional.
 • Attorney General is not a member of a central cabinet.</p> | <p>90. The Central Statistical Office which is one of the two wings of the National Statistical Organization (NSO) is responsible for coordination of statistical activities in the country and for evolving and maintaining statistical standards. Its activities include compilation of National Accounts; conduct</p> |
| <p>83. The Petroleum and Explosives Safety Organisation comes under the Ministry of Commerce and Industry. Its headquarters is situated in Nagpur. The Petroleum and Explosives Safety Organisation (PESO) is responsible for administering fireworks-related rules and regulations.</p> | |
| <p>86. The MIDORI Prize for Biodiversity was established in 2010 at the occasion of the twentieth anniversary of the AEON Environmental Foundation, which coincided with the celebration of the International Year of Biodiversity. The MIDORI Prize honors three individuals who have made outstanding contributions to conservation and sustainable use at local and global levels, and</p> | |

of Annual Survey of Industries and Economic Censuses, compilation of Index of Industrial Production, as well as Consumer Price Indices.

91. Biofuel is energy made from living matter, usually plants. Bioethanol, biodiesel and biogas are types of biofuels. Biofuels are considered renewable energies, emit less than fossil fuels and have received increasing attention in the transition to low-carbon economy. Bioethanol is the most well know biofuel and is an alcohol produced from corn, sorghum, potatoes, wheat, sugarcane, even biomass such as cornstalks and vegetable waste. Biodiesel is oil from plants or animals that has been used as an alternative to or blended with petroleum diesel in automobiles and industrial fleets with diesel engines. Bioethanol is produced by fermentation process and Biodiesel by transesterification. **Jatropha is a source of biodiesel.**

92. 'The Tragedy of the Commons is a problem that occurs when individuals exploit a shared resource to the extent that demand overwhelms supply and the resource becomes unavailable to some or all. — Garret Hardin, an evolutionary biologist, wrote "The Tragedy of the Commons," which was published in the journal 'Science' in 1968.
- 'Hardin's main concern was overpopulation. He used the example of commonly-used grazing land. According to Hardin, the land could provide adequately as long as the number of herders grazing cattle on it was kept in check, through natural population control mechanisms, such as war and disease.
- 'Deep Ecology is an ecological and environmental philosophy promoting the inherent worth of living beings regardless of their instrumental utility to human needs, plus a radical restructuring of modern human societies in accordance with such idea.

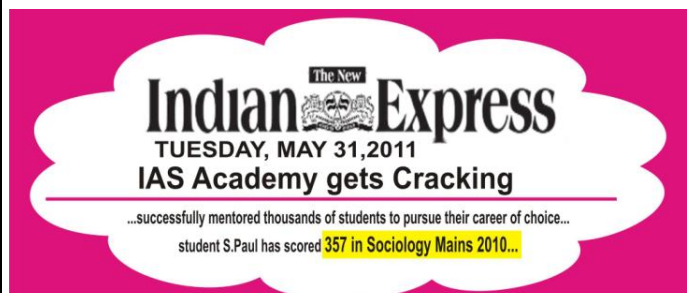
93. ✓ Maharashtra's Hingoli district has been chosen for carrying out experiments on the ambitious LIGO project that proved existence of gravitational waves, a major breakthrough in science.
- ✓ A gravitational wave is a concept predicted by Einstein's theory of general relativity. General relativity states that mass distort both space and time in the same way a heavy bowling ball will distort a trampoline.
- ✓ When an object accelerates, it creates ripples in space-time, just like a boat causes ripples in a

pond (and also similarly an accelerating electrical charge produces an electromagnetic wave). These space-time ripples are gravitational waves. They are extremely weak so are very difficult to detect.

95. 'Gram Sabhas or Panchayats at appropriate level shall also have powers to manage minor water bodies; power of mandatory consultation in matters of land acquisition; resettlement and rehabilitation and prospecting licenses/mining leases for minor minerals; power to prevent alienation of land and restore alienated land; regulate and restrict sale/consumption of liquor; manage village markets, control money lending to STs; and ownership of minor forest produce.
- 'PESA, 1996 has been enacted for 5th Schedule areas. It includes 10 states.

98. • Scientists here have developed a high zinc-enriched variety of rice that is expected to play a crucial role in fighting malnutrition in tribal-dominated **Chhattisgarh** where nearly seven lakh children are still malnourished.
- Above 300 enzymes in human body use zinc. Human body needs small amount of Zinc but its deficiency results in: Growth retardation, Diarrhoea, Eye and skin lesions, Loss of appetite.
- Zinc is important for protecting, synthesizing, and regenerating DNA; in wound healing; and several other activities.

99. The minority affairs ministry's exercise is aimed at trying to build the confidence of the Muslims and other sections in society. It is a measure to shed the "anti-minority" image, the government is accused of.



The New
Indian Express
 TUESDAY, MAY 31, 2011
IAS Academy gets Cracking

...successfully mentored thousands of students to pursue their career of choice...
 student S.Paul has scored **357** in Sociology Mains 2010...

Answers

1. C	11. C	21. B	31. A	41. C	51. C	61. A	71. A	81. D	91. D
2. A	12. C	22. D	32. D	42. D	52. A	62. A	72. A	82. A	92. B
3. D	13. C	23. B	33. C	43. B	53. B	63. C	73. C	83. D	93. D
4. C	14. A	24. C	34. B	44. C	54. B	64. D	74. A	84. B	94. B
5. A	15. A	25. C	35. C	45. A	55. C	65. A	75. D	85. B	95. A
6. C	16. A	26. B	36. D	46. C	56. D	66. A	76. B	86. B	96. A
7. C	17. D	27. A	37. C	47. B	57. B	67. B	77. A	87. C	97. B
8. C	18. B	28. A	38. A	48. A	58. A	68. D	78. B	88. A	98. B
9. C	19. D	29. C	39. B	49. A	59. C	69. C	79. C	89. C	99. C
10. A	20. C	30. A	40. B	50. C	60. D	70. A	80. D	90. D	100. D

Explanations

1. While Bangladesh is among the top five countries at risk of disaster, India ranks 77 on the World Risk Index - marginally better positioned than Pakistan which is placed at 72. The index is part of the World Risk Report 2016 released by the United Nations University Institute for Environment and Human Security (UNU-EHS) and Bundnis Entwicklung Hilft in cooperation with the University of Stuttgart in Germany.
2.
 - Chilli paste-coated ropes are being tried in Kerala to rein in prowling wild elephants.
 - Moving away from the traditional methods of scaring away elephants by bursting firecrackers and making loud noises, wildlife researchers are trying coir ropes coated with a paste of chilli powder and used engine oil to control the crop-raiding animals.
 - Elephants, one of the most intelligent animal species, get easily accustomed to the traditional techniques used to deter them from farmlands and human habitations, such as noise-making devices, trip-wire activated alarms, and non-lethal electric fencing.
 - They invent ways to overcome such hurdles like destroying the electric fence by pulling trees over them and snapping the safe portions of electric lines.
 - For deterring elephants from human settlements, continuous practice of any single method is not advisable, but a combination of methods may be practised.
3.
 - ✓ 'Maharaja' bond, a rupee-denominated onshore debt instrument issued by International Finance Corporation (IFC), an arm of World Bank. The Maharaja bonds have been issued to support the country's domestic capital markets.
 - ✓ A Panda bond is a Renminbi (RMB) denominated bond issued in Mainland China.
4.
 - ✓ Euclid is a space-based optical/near-infrared survey mission of the European Space Agency (ESA) to investigate the nature of dark energy, dark matter and gravity by observing the geometry of the Universe and on the formation of structures over cosmological timescales.
5. Swayam Shikshan Prayog, is an NGO that empowers grassroots women to enable sustainable progress in underserved communities in India. It bagged the UN climate award this year. The NGO, which trains women to become clean energy entrepreneurs across Maharashtra and Bihar, is one of the 13 projects to be recognised at the forthcoming UN climate summit in Marrakesh in November. In an official release, the UNFCCC, the nodal UN climate body, has applauded this project for building a rural distribution network of 1,100 women entrepreneurs facilitating access to clean energy, water and sanitation products and services in several communities.
6. Fluorinated greenhouse gases (F-gases) are a family of gases containing fluorine. They are powerful greenhouse gases that trap heat in the atmosphere and contribute to global warming. They are stronger than naturally occurring greenhouse gases and their use is regulated.
7.
 - ✓ A graded response lays down stratified actions that are required to be taken as and when the concentration of pollutants, in this case particulate matter, reaches a certain level.
 - ✓ The plan was prepared by the Supreme Court-mandated Environment Pollution Control Authority (EPCA), which held meetings with stakeholders from all states over several months.

- | | |
|---|--|
| <p>8. • Arittapatti, situated between Alagarmalai and Perumal Malai reserve forests, is a historic site with 2,000-year-old Jain rock beds and inscriptions.</p> | <p>engines will be used in different stages of the flight – with ramjet used at lower speeds, scramjet at hypersonic speeds and cryogenic engines when the craft reaches the edge of the atmosphere.</p> |
| <p>• Madurai was once a paradise for 17 species of raptors, which could feed on the then plentifully available reptiles.</p> <p>• Indiscriminate sand quarrying on the Vaigai river bed, and granite quarrying in many parts of Madurai, have spelt disaster for many raptor species and today, only two Laggar Falcons survive on the rock cliffs of Arittapatti near Melur in the district.</p> <p>• They are probably the only birds spotted in the entire south Indian region in the last two years. There is no record of spotting Laggar Falcons on eBird, a US-based web page for birders. The species nest only on rock cliffs unreachable to humans.</p> | <p>14. • Cattle egret which is widely found in India is a natural scavenger. A study from Kerala says that the wetland egret, <i>Bubulcus ibis</i>, can be used as bio-control agent in solid-waste dumping sites.</p> <p>• These birds are widely exploiting the solid waste which is rich with the larvae of disease spreading house flies (<i>Musca domestica</i>) and blue bottle flies (<i>Calliphora</i> species).</p> |
| <p>9. China opens “world’s highest and longest” glass-bottomed bridge. It connects two mountain cliffs known as the Avatar mountains in Zhangjiajie, Hunan province.</p> | <p>15. ✓ The Union Cabinet has given its approval for amendment in the Modified Special Incentive Package Scheme (M-SIPS) for electronics manufacturing.</p> <p>✓ These modifications will further incentivize investments in electronic sector and move towards Union Government’s goal of ‘Net Zero imports’ in electronics by 2020.</p> <p>✓ The scheme provides subsidy for capital expenditure 20% for investments in Special Economic Zones (SEZs) and 25% in non-SEZs.</p> <p>✓ It also provides reimbursement of countervailing duty/excise for capital equipment for non-SEZ units and also reimbursement of duties and central taxes for some of the projects with high capital investments.</p> |
| <p>10. ✓ Halti is at the border between Norway and Finland. The peak of the fell is in Norway, about 1 km north of the border with Finland.</p> <p>✓ Norway has decided not to gift a mountain peak to Finland to mark its 100 years of independence from Russia</p> | <p>16. The BRICS CRA proposes to provide short-term liquidity support to the members through currency swaps to help mitigating BOP crisis situation, in case such a situation arises. The BRICS CRA will help India and other signatory countries to forestall short-term liquidity pressures, provide mutual support and further strengthen financial stability. It would also contribute to strengthening the global financial safety net and complement existing international arrangements (from IMF) as an additional line of defence.</p> |
| <p>11. Jarvis is an AI system Zuckerberg has built to control his home and perform basic tasks, such as turning the lights off or on, control a particular room’s temperature, playing music, opening doors, and so on. The home AI uses natural language processing and speech recognition to understand the user’s voice, and the context of the command, in order to perform the tasks it is asked to do. It also has facial recognition capabilities and, therefore, can open doors of the home for known guests, or tell Zuckerberg where each member of the family is, whether Max is asleep or playing around, and so on.</p> | <p>17. ➤ Energy Efficiency Services Limited (EESL) is a joint venture of NTPC Limited, Power Finance Corporation, Rural Electrification Corporation and POWERGRID, Energy Efficiency Services Limited (EESL) was set up under Ministry of Power (India) to facilitate implementation of energy efficiency projects. EESL is a Super Energy Service Company (ESCO) that seeks to</p> |
| <p>13. ISRO’s reusable launch vehicle platform, called Avatar, is a concept that is capable of carrying out satellite launches – takes off vertically and lands back on a runway. The spacecraft is designed to use ramjets and scramjets for thrust. Each of these</p> | |

unlock energy efficiency market in India, estimated to at US\$12 billion that can potentially result in energy savings of up to 20 per cent of current consumption, by way of innovative business and implementation models. It also acts as the resource centre for capacity building of State DISCOMs, ERCs, SDAs, upcoming ESCOs, financial institutions, etc.

- Government of India launched the Unnat Jyoti by Affordable LEDs and Appliances for All (UJALA) scheme on 5 January 2015 with an objective to provide people with affordable energy efficient appliances in comparison to the market price. EESL is the implementing agency for the scheme, ensuring widespread distribution of energy efficient appliances across the country.

19. • Agni-V is India's first intercontinental ballistic missile and is a significant achievement by the Defence Research and development Organization of India (DRDO). Agni V is a surface-to-surface nuclear capable ballistic missile. The missile carries the capacity to load a nuclear warhead weighing over a tonne. The missile can carry the warhead between the ranges of 5000-8000 kilometers according to different source, though there is no official confirmation on its exact range. However it is below 15000 kilometers.

20. Except Cheetah Rest of the all are naturally found in India. In India Cheetah are extinct in the wild or regionally extinct. Cheetahs are particularly vulnerable to habitat loss and fragmentation of their habitat. One reason for their extirpation across most of their Asian range is thought to have been the live capture of cheetahs, which were then trained to hunt deer and gazelle as sport for the aristocracy. Other key causes of the disappearance of Cheetah from the region are likely to have been depletion of wild prey, especially gazelles, the direct killing of Cheetahs.

- ✓ Black necked crane winters mainly in remote parts in Bhutan, and Arunachal Pradesh, India. The Ramsar site Tsomoriri lake in India is said to represent the only breeding ground outside of China for the Black-necked crane.
- ✓ The Clouded Leopard is found in the Himalayan

foothills.

- ✓ In India, Pangolin is widely distributed from the plains and lower hills south of the Himalayas to extreme southern India.

21. ➤ A scramjet engine means a supersonic combusting ramjet engine. Both scramjet and ramjet engines use the space craft's forward motion to compress incoming air without an axial compressor. Since scramjets cannot produce thrust at zero airspeed, they cannot move a space craft from a standstill. A scramjet-powered vehicle, therefore, requires an assisted take off by a rocket to accelerate it to a speed where it begins to produce thrust. It has been found that scramjet engines work most efficiently at supersonic speeds between Mach 3 and Mach 6. A ramjet engine on the other hand can work at subsonic speed. Both ramjet and scramjet engines use atmospheric oxygen as oxidizer. While exit flow from the inlet of a ramjet engine is subsonic that from a scramjet engine is supersonic. The word Mach comes from Ernst Mach, a brilliant 19th century scientist whose most famous contribution was in the area of the speed of sound. Mach 1 means the speed of sound that is 1195 km/hr in air. A rocket flying at Mach 1 speed means it is going at the speed of sound in a particular medium say air. Mach 2 means twice the speed of sound.

- ISRO currently uses rocket launch vehicles like the PSLV to deliver satellites into orbit. PSLVs are expendable, meaning that can only be used once, and are designed to carry both fuel and oxidizer with for launch. Scramjets use ambient air to burn fuel, thus saving the need to carry an oxidizer – thus increasing the payload of a craft. ISRO claims that using Avatar for satellite launches will cut down launch costs by half. Since there are no rotating parts in a scramjet, the chances of failure are also measurably reduced.

- **ISRO's reusable launch vehicle platform, called Avatar**, is a concept that is capable of carrying out satellite launches – takes off vertically and lands back on a runway. The spacecraft is designed to use ramjets and scramjets for thrust. Each of these engines will

<p>be used in different stages of the flight – with ramjet used at lower speeds, scramjet at hypersonic speeds and cryogenic engines when the craft reaches the edge of the atmosphere.</p>	<p>28. Almatti dam, one of the largest reservoirs in Karnataka is a dam built for hydroelectric and irrigation project on the Krishna River. The dam was chosen for the World Bank's Award of Excellence for best utilization of funds for renovation to enhance the strength of the dam. The World Bank had granted Rs.72 crore to the Krishna Bhagya Jal Nigam Limited to prevent seepage which could damage the dam. According to the officials of Nigam, the project was taken up under the Dam Rehabilitation and Improvement Project (DRIP) scheme by the Union government. The certificate mentions that the award is given in recognition of the excellence in quality of rehabilitation works and compliance with statutory regulatory and environment requirements.</p>
<p>22. As a part of the Government's focus on the development of programmes that aim to directly and positively impact people's lives rapidly, the Ministry of Science and Technology has been at the forefront in many of these initiatives. Two Farmer-Centric initiatives of this Ministry are Biotech-KISAN and Cattle Genomics.</p>	
<p>23. ➤ Ash-filled voids cannot support tree species because of poor root system development which in turn results in uprooting of trees even by low velocity winds. ➤ Contamination of ground water due to leaching of heavy metals in fly ash ➤ Reduction in recharging of ground water due to fly ash filled mine voids</p>	<p>29. Kangra paintings often come in related sets. This painting is known as "Kurma the Tortoise" is from a set of Kangra Paintings of the Bihari Sat Sa which are based on a beautiful set of poems from Hindu mythology about the incarnations of the god Vishnu. It's found today in the National Museum of India in New Delhi. This painting depicts a tale of the eleventh incarnation of Vishnu where he took the form of a tortoise whose shell served as a pivot for the Mandaracala Hill, which was being used as a churning rod by the Devas and Asuras of the universe. Their back-and-forth tugging churned the sea to produce soma, the ambrosial sacred nectar which they could drink and become deathless.</p>
<p>24. The FSB, which comprises 24 member countries, the European Commission and numerous international bodies, is an outgrowth of the Financial Stability Forum (FSF) founded in 1999 by the member countries of the Group of Seven (G-7). The FSB was given a broader mandate with an expanded membership and the institutional heft to specifically address the vulnerabilities affecting the global financial system.</p>	
<p>25. ✓ The Indian Institute of Tropical Meteorology (IITM) is putting its effort in understanding the rain formation in clouds through a research program called Cloud Aerosol Interaction and Precipitation Enhancement Experiment (CAIPEEX). Under this experiment, air borne observations are taken through randomized cloud seeding and the impact is recorded. ✓ The CAIPEEX program uses a combination of radar, other ground based instruments and airborne platforms along with high resolution numerical modeling to plan and conduct the seeding experiment. The area for cloud seeding is determined based on convective potential.</p>	<p>30. District Rural Development Agencies (DRDAs) are district level development execution and monitoring agencies created under the Indian Societies Registration Act.</p> <ul style="list-style-type: none"> • The committee was formed after a series of devastating forest fires earlier in the year 2016 including the prolonged one that had charred 4,000 hectares of forest land across 13 districts of Uttarakhand in May 2016. The committee was headed by Rajya Sabha MP Renuka Choudhary. • Chir pine needles, which are highly inflammable due to its high resin content, are a prominent factor in occurring and spreading of forest fires.
<p>27. The index ranks world economies since 2007 according to their innovation capabilities using more than 80 indicators.</p>	
	<p>31. UDAY is a Central scheme providing for the financial turnaround and revival of State electricity</p>

distribution utilities. Under the scheme, States will take over 75% of the debt of their respective DISCOMs. The remaining 25 per cent of the discom debt will be dealt within one of the two ways — conversion into lower interest rate loans by the lending banks or be funded by money raised through State guaranteed discom bonds. But, adopting UDAY is optional for all States. Thus, UDAY is an example of the utilization of the best principles of cooperative and competitive federalism.

32. The Bharat Mala project has been started under the Ministry of Road Transport & Highways for construction of roads along India's borders & coastal areas with a view to improve road connectivity to coastal / border areas, backward areas, religious places, tourist places.

33. The Reserve Bank of India (RBI) has set up a committee to look at the various facets of household finance in India and to benchmark India's position vis-à-vis both the peer countries and advanced countries. The Committee was chaired by Dr. Tarun Ramadorai, Professor of Financial Economics, University of Oxford and will have representation from financial sector regulators, namely, SEBI, Insurance Regulatory and Development Authority of India (IRDAI), Pension Fund Regulatory and Development Authority (PFRDA) apart from Reserve Bank of India (RBI).

34. ✓ Consequent to India's ratification of the WTO Agreement on Trade Facilitation (TFA) in April 2016, the government has constituted the National Committee on Trade Facilitation (NCTF) to develop a pan-India road map for trade facilitation.
 ✓ This inter – ministerial body on trade facilitation would be chaired by the cabinet secretary. Its secretariat will be housed within the Central Board of Excise and Customs, in the Directorate General of Export Promotion, New Delhi.

35. ✓ The World famous 11-day gala festival Bargarh Dhanua Jatra began on 2 January 2017 in western Odisha. All rituals were performed before **Goddess Samaleswari**, the presiding deity of the event.
 ✓ Dhanu Jatra is an annual drama-based open air

theatrical performance celebrated in and around Bargarh city spanning over an area of 6 km radius. It is considered to be the world's largest open air theatrical festival.

✓ The 11-day gala event showcases all mythological places related to Lord Krishna by arranging a huge stage in the city. Bargarh stages Mathuranagari and Ambapalli area is staged as Gopapur, the parenting place of Krishna. Jeera River is considered as river Yamuna and Hatapada mandap is taken as the Raj darbar of king Kansa.

36. An announcement was made by the government relating to the imposition of minimum import price on steel being for the short term, and that it will be taking permanent measures to tackle unfair trade practices as per global norms, so as to address the declining trend of steel import & increase in domestic consumption.

37. The "IMC Suresh Kotak International ADR Centre", which is the first International Arbitration Centre in India, was inaugurated by Bombay high court Chief Justice Mohit Shah on October 8, 2016.

38. Kala-azar is a slow progressing indigenous disease caused by a protozoan parasite of the genus Leishmania. In India Leishmania donovani is the only parasite that causes this disease. The parasite primarily infects the reticulo endothelial system and may be found in abundance in bone marrow, spleen and liver.

41. The 15th World Trade Organization Public Forum, an annual event that brings together stakeholders and members of the public to discuss trade issues, opened today. This year, the focus is on inclusive trade. During the opening session, participants underlined the need for support of micro enterprises, in particular in developing countries. Also today, the WTO released its trade statistics and outlook for 2016, which announced the slowest pace of trade and output growth since the 2009 financial crisis.

42. ✓ The Dragon Hole, a massive blue hole in the South China Sea, has officially been declared the world's deepest underwater sinkhole.
 ✓ Blue holes are underwater sinkholes or caves that are open to the surface of a body of water, often with a rim of limestone or coral. The rim

<p>and the walls of the sinkhole help give the water in it its dark blue hue. The walls also keep the waters of the blue hole somewhat separate from the body of water it's in, often giving them different marine life, temperatures, salinity and other features.</p> <p>✓ The Paracel Islands, also known as Xisha is a group of islands, reefs, banks and other maritime features in the South China Sea. It is controlled (and occupied) by the People's Republic of China, and also claimed by Taiwan (Republic of China) and Vietnam.</p>	<ul style="list-style-type: none"> • SAFAR is conceived and developed by ministry's constituents and India's premier research institute, IITM, Pune.
<p>43. The reason cited was the grouping's decision to penalise the island nation over the circumstances that led to then President Mohamed Nasheed's ouster in 2012 and the lack of subsequent progress in resolving the political unrest.</p> <p>➤ "The Commonwealth's decision to penalise the Maldives was unjustified especially given that the Commission of National Inquiry (CoNI), established with the help of the Commonwealth, found that the transfer of power in the Maldives was consistent with the constitutional provisions," it said.</p>	<p>48. ✓ Hindi is considered as 10th most powerful language in the 'World Power Language Index' published by World Economic Forum on December 2, 2016. As we know Hindi is most Primarily Spoken Language of India with a share of 41%, Hindi is also the official language of Indian government.</p> <p>✓ English has been ranked first in the top 10 most powerful languages in the world according to the 2016 World Power Language Index (PLI).</p>
<p>44. This bird is on the verge of extinction. A survey in 2011 in non-protected areas of Maharashtra and Madhya Pradesh confirmed the presence of the species at two locations. In Maharashtra, a pair was observed (out of 7 pairs in 2004) in Toranmal Reserve Forest, and in Madhya Pradesh, six individuals were observed in Khaknar. An individual was located in Tansa Wildlife Sanctuary in the Thane district in 2014.</p>	<p>49. The 2-day meeting of Ministers of Disaster Management (MDM) of BRICS countries concluded in Udaipur, Rajasthan with the adoption of the Udaipur Declaration. Under the Udaipur Declaration, BRICS nations to set up a dedicated Joint Task Force for Disaster Risk Management for regular dialogue, exchange, mutual support and collaboration among them.</p>
<p>45. Leigh syndrome, a mitochondrial disease. (News Three Parent Baby).</p>	<p>50. • Vitamin B12 is naturally found in animal products, including fish, meat, poultry, eggs and milk, meaning deficiency is more likely in those following a vegan diet.</p> <ul style="list-style-type: none"> • Leptin is a hormone that is produced by the body's fat cells. It is often referred to as the "satiety hormone" or the "starvation hormone." Leptin's primary target is in the brain, particularly an area called the hypothalamus. • Leptin is supposed to tell the brain that we have enough fat stored, that we don't need to eat, and that we can burn calories at a normal rate. It also has many other functions related to fertility, immunity, brain function and others. Vitamin B12 deficiency may be the result of abnormal levels of leptin.
<p>47. • Ministry of Earth Sciences, Govt. of India has distinction to provide India's first ever Air Quality Forecasting system SAFAR for Metro cities.</p> <ul style="list-style-type: none"> • This is the first mobile application service in our country to provide current and one to three day advance forecast for air quality and related health advisories in terms of colour-coded system that allows the public to easily comprehend the air & to make any adjustments to their personal outdoor plans based on advisory in your handset to keep up your health. 	<p>51. Demerit good is a good which is considered unhealthy or damaging in some way. A demerit good can be physically harmful (cigarettes), mentally harmful (gambling), or morally harmful (prostitution). In many cases, demerit goods are subject to additional taxes in an effort to reduce consumption; these taxes are frequently known as sin taxes. Demerit goods often come in the discussion on the recently enacted Goods and Service Tax regime in India, as they would likely be</p>

among the highest taxed goods under the GST regime.	scientific prestige. It is funded by the National Development and Reform Commission (NDRC) and managed by the National Astronomical observatories (NAOC) of Chinese Academy of Sciences (CAS), with the government of Guizhou province as a cooperation partner.
<p>52. • The Global Apollo Programme Report has the objective of making carbon-free baseload electricity less costly than coal within ten years.</p> <p>• A coalition of 20 countries already signed up to “Mission Innovation” earlier this month at the UN climate talks in Paris, pledging to double their expenditure on clean energy innovation over the next 5 years. India is a part of Mission innovation.</p>	57. Japan-based pro-bonds, which came into existence in 2008, target professional investors and are aimed at developing Japan's bond market. Through this route, Japanese institutional investors, who are facing negative interest rates, can earn higher rates. ICICI Bank, India's largest private lender, has raised 10 billion Japanese yen (\$88 million) by selling a new series of bonds known as pro-bonds, the first issue of its kind by an Indian company.
<p>53. Software Technology Parks Of India (STPI) has partnered India Electronics and Semiconductor Association (IESA) to set up an ‘Electropreneur Park’. The initiative, which has a corpus of Rs 22 crore, will focus on IP creation and product development to increase value addition to domestic manufacturing of electronic items like smartphones, smart meters, micro ATMs and set top boxes.</p>	58. ✓ The Ministry of Power, Government of India signed the MoU for Ujwal DISCOM Assurance Yojana (UDAY) with Tamil Nadu in New Delhi, on 9th January, 2017. Also, with the signing of the ‘24x7 Power For All (PFA)’ roadmap document with the State, the roadmap for all the 28 States, except one, and all the 7 Union Territories in the country have now been finalized and is under implementation. It is the most significant milestone in this initiative founded on the principles of cooperative federalism.
<p>54. Currency chests are branches of selected banks authorised by the RBI to stock rupee notes and coins. The responsibility for managing the currency in circulation is vested in the RBI. The central bank advises the Centre on the number of notes to be printed, the currency denominations, security features and so on. The number of notes that need to be printed is determined using a statistical model that takes the pace of economic growth, rate of inflation and the replacement rate of soiled notes. The Government has, however, reserved the right to determine the amount of coins that have to be minted.</p>	✓ Providing access to reliable and quality power supply to all citizens/ establishments by 2019 is at the core of the Prime Minister of India, Shri Narendra Modi’s vision for the nation and the Ministry of Power’s 24x7 PFA program is aimed at delivering on it.
<p>55. It is an unprecedented by scale international round-the-world Antarctic expedition with visiting all the major islands of the sub Antarctic region. It aims at understanding the evolution of the ecosystems of SubAntarctic islands during the Holocene and its modern conditions.</p>	✓ The Program has been instrumental in mainstreaming the Ministry’s focus on energy efficiency and Demand Side Management interventions and has resulted in increased participation with speedy rollout of the UJALA/ DELP and other EESL led schemes. It is important to note that UJALA has emerged as the world’s largest and most successful LED bulbs program.
<p>56. The Five-hundred-meter Aperture Spherical Radio Telescope (FAST), nicknamed Tianyan, is a Chinese mega-science project aiming to build the largest single dish radio telescope in the world, with innovative concepts. The goal of Tianyan is to discover the laws of the development of the universe. The Tianyan demonstrates china’s rising ambitions in space and its pursuit of international</p>	<p>59. District Reserve Force (DRG)</p> <ul style="list-style-type: none"> ➤ Well conversant with the inhospitable terrain and dense forests of Bastar. ➤ They are emotionally attached to the region as they belong to this place. They are fighting

Maoists efficiently because of their inherent motivation for doing so.

- Having a bond with the tribals, they are better mentally-conditioned to handle them. They are fighting Maoists efficiently because of their inherent motivation for doing so.
- Many of the recruits in DRG are surrendered Naxals and having served with the outlawed CPI (Maoist), they are aware of the movement of the ultras in forests, their schedule, habits and operational pattern.
- They are considered immensely “flexible” when it comes to combat situations. Well-trained forces follow standard operating procedures. These surrendered cadres don't follow rules, and thus are better equipped to guerilla warfare in the jungles.
- DRG's good local information network helps them to launch operation based on specific inputs.
- Moreover, having a rough idea about the shelters of rebels in the forests in different seasons, probable locations of their transit camps, sources of Maoist's logistical support in different villages and good tuning with local people also help DRG's men to plan their operations.

60. Ozone can be destroyed by a number of free radical catalysts, the most important of which are the hydroxyl radical ($\text{OH}\cdot$), the nitric oxide radical ($\text{NO}\cdot$), the atomic chlorine ion ($\text{Cl}\cdot$) and the atomic bromine ion ($\text{Br}\cdot$). All of these have both natural and man-made sources; at the present time, most of the $\text{OH}\cdot$ and $\text{NO}\cdot$ in the stratosphere is of natural origin, but human activity has dramatically increased the levels of chlorine and bromine. These elements are found in certain stable organic compounds, especially chlorofluorocarbons (CFCs), which may find their way to the stratosphere without being destroyed in the troposphere due to their low reactivity. Once in the stratosphere, the Cl and Br atoms are liberated from the parent compounds by the action of ultraviolet light.

61. The weather in the month of October in the Indian sub-continent is called '**October heat**'. During October and November, with the apparent

movement of the sun towards the south, the monsoon trough or the low-pressure trough over the northern plains becomes weaker. This is gradually replaced by a high-pressure system. The **south-west monsoon winds weaken** and start withdrawing gradually. By the beginning of October, the monsoon withdraws from the northern plains. The months of October and November form the period of transition from the **hot rainy season to dry winter conditions**. The retreat of the monsoon is marked by clear skies and a rise in temperature. While day temperatures are high, **nights are cool and pleasant**. The land is still moist and the weather becomes rather oppressive during the day and is commonly known as October heat.

64. ✓ Multiple drug resistance (MDR), multidrug resistance is antimicrobial resistance shown by a species of microorganism to multiple antimicrobial drugs.

✓ The types most threatening to public health are MDR bacteria that resist multiple antibiotics; other types include MDR viruses, fungi, and parasites (resistant to multiple antifungal, antiviral, and anti-parasitic drugs of a wide chemical variety). The first evidence of multidrug resistance in poultry sold in Indian markets is Helicobacter Pullorum, which-besides being untreatable-could also be cancer-causing.

✓ H. Pullorum is commonly found in the liver and gut of poultry birds and is believed to co-evolve with its natural host. Infected chicken, when consumed, are known to cause gastrointestinal infections in humans. Researchers in Hyderabad have isolated the bacterium in chicken that may well be the source of transmission of the drug-resistant pathogen to humans.

66. Army Design Bureau is an independent body and will be headed by a Major General as a part of 'Make in India' programme.

- ADB will provide a better understanding of the Army's requirements to the academia, research organisations and the industry for developing high tech defence products.

- It will function as the Army's interface with leading research institutions such as IITs, DRDO, academia, Defence Public Sector Units

<p>and the industry to enable them to understand and appreciate the Army's need.</p>	<p>be deployed in Pune. Google Station is a collaborative project between IBM, Larsen and Toubro and RailTel.</p>
<p>67. IBRD, acting as an implementing agency of the Global Environment Facility, provides loans and other assistance primarily to middle income countries. The parent project 'India: Financing Energy Efficiency at MSME Project (FEEMP)' became effective on September 29, 2010 with an original grant aid of USD 11.3 million.</p>	<ul style="list-style-type: none"> • It's a Rs 150 crore project that's won by these companies as part of Pune's Smart City initiative
<p>68. The Aral Sea is situated in Central Asia, between the Southern part of Kazakhstan and Northern Uzbekistan. The Aral Sea has been steadily shrinking since the 1960s after the rivers that fed it were diverted by Soviet irrigation projects. By 2007, it had declined to 10% of its original size, splitting into four lakes – the North Aral Sea, the eastern and western basins of the once far larger South Aral Sea, and one smaller lake between the North and South Aral Seas. Satellite images taken by NASA in August 2014 revealed that for the first time in modern history the eastern basin of the Aral Sea had completely dried up. The shrinking of the Aral Sea has been called "one of the planet's worst environmental disasters.</p>	<p>71.</p> <ul style="list-style-type: none"> • The helmeted hornbill is being hunted to extinction, one of the latest victims of a thriving global trade in exotic wildlife. The huge birds have been caught for centuries for their tail feathers, prized by local communities. • The Helmeted Hornbill is threatened by poaching and wildlife trafficking, which have risen significantly owing to increased demand from China for Helmeted Hornbill ivory - the hornbill's unique solid bill casque. Poachers aren't interested in their brilliant plumage or large bills, but a helmet-like block of reddish-gold keratin at the front of the skulls known as a casque. • By the close of 2015, the species had progressed from vulnerable to critically endangered - leaping two threat levels to the highest possible risk category on the International Union for Conservation of Nature's "red list".
<p>69. The Insolvency and Bankruptcy Board of India (IBBI) is the regulator for overseeing insolvency proceedings and entities like Insolvency Professional Agencies (IPA), Insolvency Professionals (IP) and Information Utilities (IU) in India. It was established on 1 October 2016 and given statutory powers through the Insolvency and Bankruptcy Code, which was passed by Lok Sabha on 5 May 2016. It covers Individuals, Companies, Limited Liability Partnerships and Partnership firms. The new code will speed up the resolution process for stressed assets in the country. It attempts to simplify the process of insolvency and bankruptcy proceedings. It handles the cases using two tribunals like NCLT (National company law tribunal) and Debt recovery tribunal. Navrang Saini appointed as whole time member of IBBI.</p>	<p>72. Jan 29, 2017 - The long awaited 3-lane new Saraighat Bridge over the Brahmaputra got finally inaugurated by Union Transport Minister Nitin Gadkari.</p> <p>73.</p> <ul style="list-style-type: none"> ➤ The Bureau of Energy Efficiency (BEE) has introduced a new star rating methodology called Indian Seasonal Energy Efficiency Ratio (ISEER) for air conditioners. This evolved rating methodology factors in variance in higher temperature in India and rates air conditioners accordingly. Consumers can now purchase air conditioners with higher efficiency leading to lower electricity bills. ➤ Keeping the performance of air conditioners during higher temperature in mind, ISEER will address the different climatic zones in India and higher temperature. ISEER measures energy efficiency of air conditioners based on a weighted average of the performance at outside temperatures between 24 and 43 degree C based on Indian weather data. ➤ Ratings based on ISEER have been introduced on a voluntary basis for Variable Speed
<p>70.</p> <ul style="list-style-type: none"> • India will be the first country in the world where Google will deploy Google Station. It's a fast Wi-Fi initiative that aims to bring high-speed internet access to public areas. • While India is the lucky country to get the station, the lucky city where the service will first 	

<p>(Inverter) Air Conditioners since June 2015 and proposed to be merged with fixed speed air conditioners in the mandatory regime from January 2018.</p>	<p>which don't get electricity supply. The lamp functions by capturing day light and concentrating and saving it inside which can be used during the night time. The device is leak proof, and can work up to four hours continuously after sunset. This device has been developed by the Department of Science & Technology as a part of their Green Energy initiatives.</p>
<p>74. • Spectrum harmonization refers to the uniform allocation of radio frequency bands across an entire region. This is not based on countries because radio waves do not stop at country boundaries and the fact that the world is considered as a global village. Spectrum harmonization reduces radio interference along borders and helps in international roaming and interoperability, thus reducing the prices of telecommunication equipment on a global level.</p> <p>• Spectrum harmonization is a global effort initiated by the International Telecommunication Union (ITU) aimed at improving global roaming and communication across the world. It helps bring people closer together and mobile prices to an economic scale. When regulators make their mobile-sector spectrum even with international band plans, cellular mobile phones can be manufactured cheaply because a single model can be fit for use in many countries within a region of the same band. This will lower the cost of production owing to the economy of scale. Hence more devices are available to people that allow them to connect even if they travel abroad.</p>	<p>80. The AMRIT pharmacy will provide medicines for cancer and cardiovascular diseases at low and affordable prices.</p>
<p>76. • Jalli refers to gold or silver coins.</p>	<p>81. The rusty spotted cat is one of the few wild cats. Reputed to be the smallest wild cat at about half the size of its domestic cousin, the rusty spotted species shares its habitat with the tiger in Andhra Pradesh. Both tigers and rusty spotted cats inhabit the Nagarjuna Sagar-Srisailem Tiger Reserve in Andhra Pradesh. The species has been recorded in India and Sri Lanka, but it has been sighted in Nepal also in recent times. Many wildlife experts describe it as the smallest cat species in the wild, though some say the African black-footed cat qualifies for that status. The cat is said to be present in all forests in the Eastern Ghats.</p>
<p>77. The translocation of Asiatic lions from Gir National park to Kuno Sanctuary in Madhya Pradesh was in news recently. Gujarat Government refused to relocate the lions. Experts have for long been saying that Gir has become overcrowded with lions and there is need to spread them out to other locations to ensure their genetic stability and health.</p>	<p>82. India's first indigenously built nuclear armed submarine INS Arihant was commissioned into service recently, making the country a "nuclear triad" power.</p> <p>✓ With INS Arihant becoming fully operational, India joins the club of other 'nuclear triad' powers - UK, USA, China, Russia and France.</p> <p>✓ A nuclear triad power has the ability to launch nuclear weapons from air, land & water.</p>
<p>78. • The Terai Arc Landscape (TAL) has recently received a spectacular boost for tiger conservation. After two years, Rajaji National Park was notified as a Tiger Reserve – marking an astounding victory for conservationists. The lush forest in Uttarakhand State spans 820 sq. km and is home to 12 tigers. It is now the 48th Tiger Reserve in India.</p>	<p>83. Perched on the Himalayas at an altitude of nearly 13,500 feet, Himansh, the glaciological research facility is considered to be the highest point from where an Indian glacier research facility is functioning. The research lab, established by the National Centre for Antarctic and Ocean Research (NCAOR), has automatic weather stations, ground penetrating radars, geodetic GPS systems and other sophisticated facilities to quantify glaciers in the upper Indus basin in Himachal Pradesh and their contribution to river discharge.</p>
<p>79. Surya Jyoti (Photo-Voltaic Integrated Micro Solar Dome) is a low cost and energy efficient lamp useful particularly for urban slum or rural areas</p>	<p>84. ➤ The Cabinet Committee on Economic Affairs, chaired by the Prime Minister Shri Narendra Modi, has given its approval for development of</p>

<p>1120 kms of National Highways in the States of Karnataka, Odisha, Bihar, Rajasthan and West Bengal.</p> <p>➤ The work for development to two lane standards is under Phase-I of the National Highways Interconnectivity Improvement Project (NHIIP) with World Bank assistance.</p>	<p>86. ✓ Japan is dealing with what economists call a "demographic time bomb."</p> <p>✓ Through a vicious cycle of low fertility and low consumer spending, the country's economy has gradually shrunk over the last 25 years.</p> <p>✓ People are living longer, and they're heaping greater social-security costs onto younger generations who aren't having kids to replace them — thereby furthering the cycle.</p>
<p>85. ✓ The 1987 landmark Montreal Protocol was designed to close the growing hole in the ozone layer by banning ozone-depleting coolants called chlorofluorocarbons, or "CFCs". Meanwhile, in Kigali, negotiators from 197 countries agreed to amend the Montreal Protocol to phase down super potent greenhouse gas emissions known as hydrofluorocarbons or "HFCs."</p> <p>✓ HFCs are estimated to have a thousand times more heat trapping potency than CO₂ and are commonly used in refrigeration and air conditioning.</p> <p>✓ With global temperatures rising, increasing populations and higher rates of urbanization there is a growing demand for air-conditioning and the use of high-emitting coolants.</p> <p>✓ It is expected that the measures of the Kigali Amendment will help prevent up to 0.5 degrees Celsius of global warming by the end of the century. Unlike the Paris agreement that will come into force by 2020 and doesn't legally bind countries to their promises to cut emissions, the amended Montreal Protocol will bind countries to their HFC reduction schedules from 2019.</p> <p>✓ There are also penalties for non-compliance as well as clear directives that developed countries provide enhanced funding support estimated at billions of dollars globally. The exact amount of additional funding will be agreed at the next Meeting of the Parties in Montreal, in 2017.</p> <p>✓ As per the agreement in Kigali, India is part of a group that will only be freezing HFC use by 2028 and reducing it to about 15 per cent of 2025 levels by 2047.</p>	<p>87. • Aarambh Initiative, a network of organisations and individuals working on child protection in the country, has collaborated with the U.K.-based Internet Watch Foundation (IWF), which is an industry watchdog and is the most successful hotline in the world at removing child pornography.</p> <p>88. ✓ Of the 22 operational reactors, 14 are under IAEA safeguards and 8 are NOT. Those under IAEA safeguards are permitted to use imported uranium, those which are not under IAEA safeguards have to be fuelled by indigenous uranium.</p> <p>✓ India has nuclear fuel supply agreements with, among others, France, Russia, Australia, Kazakhstan, Canada, and Ukraine. Uttar Pradesh and Gujarat produce 440 MW each, which is the lowest.</p> <p>✓ Highest production is in Tamil Nadu (2440 MW), followed by Maharashtra, Rajasthan and Karnataka (total six states).</p>
	<p>90. • A dual mode ramjet (DMRJ) is an engine design where a ramjet transforms into scramjet over Mach 4-8 range i.e. it can operate both in subsonic and supersonic combustor mode.</p> <p>• DMRJ operation can be obtained using a fixed geometry air intake if the overall Mach number range is not too wide. Extension of this Mach number range, particularly towards lower Mach numbers, implies variable geometry for the air intake and/or the combustion chamber.</p> <p>• Flying test bed for Dual Mode Ramjet engine at supersonic conditions is provided by a sounding rocket platform (ATV D02).</p> <p>91. MANAK (Million Minds Augmenting National Aspirations and Knowledge) is an innovative programme sponsored and managed by the</p>

<p>Department of Science & Technology for attraction of talent to Science. The basic objective of MANAK is to communicate to the youth of the country the excitements of creative pursuit of science, attract talent to the study of science at an early age and thus build the required critical human resource pool for strengthening and expanding the Science & Technology system and R&D base.</p>	<p>prefecture.</p> <p>96. The Indian Coast Guard Ships 'Aryaman' and 'Atulya', the eighteenth and nineteenth in the series of twenty Fast Patrol Vessels (FPVs), designed and built by Cochin Shipyard Limited, were commissioned today at Kochi.</p>
<p>92.</p> <ul style="list-style-type: none"> • Walrus are the gentle giants of the Arctic. They are among the largest pinnipeds — fin-footed, semiaquatic marine mammals. However, while they have an intimidating size, and are carnivores, these animals are not aggressive. • With tusks like an elephant and the body of an overgrown seal, the Pacific walrus is one blubbery beast. This ungainly animal, often gathered en masse on rocky beaches or seen riding ice floes, dives into the water and rhythmically transforms into a wave gliding through the sea, completely at home in its arctic environment. Unfortunately, global warming has dramatically altered arctic marine ecosystems, significantly reducing the sea ice Pacific walrus needs for resting, socialization, giving birth and nursing young. As walrus' icy abode melts away, their habitat is being auctioned off to oil companies to extract more fossil fuels. 	<p>97.</p> <ul style="list-style-type: none"> • The Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) is an international organisation involving a group of countries in South Asia and South East Asia. These are: Bangladesh, India, Myanmar, Sri Lanka, Thailand, Bhutan and Nepal. Mongolia is the only country among these four which does not share land boundary with any of the BIMSTEC countries. <p>98.</p> <ul style="list-style-type: none"> ➤ Dry deciduous forests are found in western Bihar, eastern Uttar Pradesh, eastern Rajasthan, Maharashtra, Tamil Nadu, Karnataka, Madhya Pradesh and other arid regions in the Deccan plateau. ➤ These forests are prevalent in warm, arid regions, where the annual average rainfall ranges between 50 and 100 cms. ➤ The temperature also remains high throughout the year, and evaporation of water from the soil and vegetation is rapid.
<p>93. The committee, headed by power system expert Mata Prasad, has suggested that transmission planning is aligned to meet customer aspirations as opposed to the existing system where transmission is associated with long-term power purchase agreements (PPAs).</p>	<p>99. Camel milk can help strengthen the immune system, reduce acne bacteria in the skin and has higher levels of fat and protein than cow's milk. Additionally, it has lower cholesterol levels than cow's milk and three times the amount of vitamin C. (Amul Plans To Start Selling Camel Milk In Early 2017).</p>
<p>94. The Ministry of Environment and Forests notified the Ganges River Dolphin as the National Aquatic Animal. Assam's Guwahati became the first city in the country to have its own city animal with the district administration declaring the Gangetic river dolphin as the mascot. They are listed in Schedule I of the Wildlife (Protection) Act 1972.</p>	<p>100 NCTF will facilitate domestic co-ordination and implementation of TFA provisions.</p>
<p>95. Japan launched a next-generation geostationary meteorological satellite "Himawari-9", aiming to further improve weather services in the Asia-Pacific region. The Japan Aerospace Exploration Agency (JAXA) and Mitsubishi Heavy Industries, Ltd. launched the Himawari-9 from JAXA's Tanegashima Space Centre in Kagoshima</p>	 <p>The New Indian Express TUESDAY, MAY 31, 2011 IAS Academy gets Cracking ...successfully mentored thousands of students to pursue their career of choice... student S.Paul has scored 357 in Sociology Mains 2010...</p>

Answers

1. B	11. A	21. D	31. A	41. B	51. D	61. A	71. D	81. B	91. C
2. C	12. D	22. D	32. D	42. D	52. B	62. A	72. A	82. A	92. C
3. D	13. C	23. A	33. D	43. A	53. D	63. C	73. C	83. D	93. A
4. A	14. D	24. C	34. C	44. D	54. C	64. A	74. C	84. B	94. A
5. D	15. D	25. A	35. C	45. A	55. A	65. c	75. B	85. C	95. A
6. d	16. A	26. A	36. C	46. D	56. C	66. A	76. D	86. C	96. B
7. A	17. D	27. D	37. C	47. A	57. D	67. A	77. D	87. A	97. B
8. B	18. c	28. D	38. B	48. B	58. C	68. A	78. C	88. D	98. A
9. B	19. B	29. B	39. C	49. D	59. D	69. B	79. C	89. A	99. B
10. D	20. B	30. A	40. B	50. A	60. A	70. C	80. B	90. D	100. C

Explanations

1. > Petrapole is the Indian side of Petrapole-Benapole border checkpoint between India and Benapole of Bangladesh near Bongaon in North 24 Parganas district of WB.
 - > Petrapole-Benapole land border crossing is an important one for India and Bangladesh as 50 per cent of the trade passes through Petrapole. The Petrapole checkpost will also serve to foster greater economic integration and connectivity between both countries. Petrapole ICP will aim to provide better facilities for effective and efficient discharge of functions such as security, immigration, customs. It will also provide support facilities for smooth cross-border movement of people, goods and transport.

2. JE occurs in Asia and parts of the western Pacific. It usually occurs in rural or agricultural areas, often associated with rice farming. In temperate areas of Asia, transmission is seasonal, and human disease usually peaks in the summer and fall. In the subtropics and tropics, transmission can occur year-round, often with a peak during the rainy season.

7. The Catalytic Development Programme is introduced to increase the productivity, production and quality of Indian silk through a package of innovation and technologies.

12. A team of scientists at Centre for Genetic Manipulation of Crop Plants of Delhi University led by former vice-chancellor Deepak Pental has bred DMH-11, a genetically modified (GM) mustard hybrid.

13. > CBM is natural gas found in coal seams. It mainly consists of Methane (CH₄) with minor amounts of nitrogen (N₂), carbon dioxide (CO₂) and heavier hydrocarbons like ethane (C₂H₆). It is clean source of energy. During the initial years of mining, CBM was vented out and wasted into the atmosphere as it was considered as serious safety hazard while conducting coal mining operations. However, later with advancement of technology it was possible to extract CBM, a precious energy resource and an unconventional form of natural gas.
 - > It is environmentally safe and clean fuel which on combustion emits only carbon dioxide and water. It is not only considered as an efficient fuel but also reduces emission of greenhouse gas from coal mining. Its extraction prior to coal mining activities makes mining activities safer by degassing the coal seams.

15. > Potassium Chlorate is relatively safe when used in tiny amounts. It is used along with sand and red phosphorus in caps for use in toy guns. When the cap is struck by a metal head of the gun, friction is generated that ignites the red phosphorus. The heat generated by the burning red phosphorus triggers the decomposition of the potassium chlorate. The oxygen released by potassium chlorate further assists the burning of the red phosphorus. The end result is the sound.
 - > The same principle is used in safety matches. Matchstick head contains tiny amount of potassium chlorate, antimony sulphide and powdered glass. When matchsticks are struck, the friction generated ignites the red phosphorus.
 - > The oxidising property of potassium chlorate is also its biggest disadvantage when used in fireworks. It has an inherent property to become very reactive, especially when mixed with sulphur; the potassium chlorate-sulphur mixture becomes dangerously sensitive to friction and may spontaneously ignite.

16. > Assam-based ecologist and conservation activist Bibhuti Lahkar has become the first Asian to be awarded the prestigious Heritage Heroes Award by the International Union for Conservation of Nature (IUCN).

17. > Saturn's moon Titan is unique in the outer solar system in that it is the only one of the bodies outside the Earth with liquid lakes and seas on its surface and the US space agency has unveiled plans to send a submarine into the depths of its largest ocean – Kraken Mare.
 - > NASA is working on sending a submarine into the

depths of the Kraken Mare.

- The Titanian seas, however, are not composed of water, like Earth's seas, but are seas of liquid hydrocarbons and one of the reasons why NASA wants to go to Titan is "to determine if hydrocarbon-based life is possible on Titan".

18. ➤ Quantum communication lines boasts ultra-high security.

- It is impossible to wiretap, intercept or crack the information transmitted through them.
- In August 2016, China successfully launched the world's first quantum satellite. It was nicknamed "Micius" after a fifth century BC Chinese philosopher and scientist.

19. In 1991, India effectively embarked upon the path resembling Washington Consensus for its economy: open trade, open capital, and reliance on the private sector.

20. ➤ **Reform:** Here, the least amount of progress has occurred. Recurrence of NPA problem highlights the need for structural reforms. Serious consideration must also be given to issue of government majority ownership in the public sector banks (PSBs).

- **Recognition:** it is the area where there has been the most progress. following the RBI's AQR, banks have recognized a growing number of loans as non-performing.

- **Recapitalization:** With rising NPAs banks will need to be recapitalized most of which will need to be funded by government for PSBs. However, it is not the need of the hour.

- **Resolution:** For speeding up resolution, India can follow the approach of East Asian Countries by adopting a centralized strategy (post 1990s economic crisis) instead of decentralized approach currently adopted.

21. The scheme thus aimed to improve the credit profile and liquidity position of borrowers, while allowing banks to treat these loans as standard in their balance sheets, reducing provisioning costs.

22. The HR Khan committee on corporate bond market has proposed that banks should be allowed to pledge corporate bonds as collateral to borrow funds from the Reserve Bank's overnight repo window.

23. ➤ PUSA ARHAR-16:- ICAR-IARI, New Delhi has developed

- ✓ extra early maturing (120 days),
- ✓ semi-dwarf (95 cm to 120 cm tall),
- ✓ determinate,

- ✓ high yielding new plant type genetic material viz.,
- ✓ Pusa Arhar 16 which is semi-erect(Not growing perfectly straight) compact plant type.
- ✓ This plant type allows dense plant population of 3,30,000 plants/ha when planted with Row X Row spacing of 30 cm and Plant X Plant spacing of 10 cm. High density planting is important to realize higher yield and mechanization.

➤ **Indeterminate and determinate plants:** In biology and botany, indeterminate growth is growth that is not terminated in contrast to determinate growth that stops once a genetically pre-determined structure has completely formed. Thus, a plant that grows and produces flowers and fruit until killed by frost or some other external factor is called indeterminate. For example, the term is applied to tomato varieties that grow in a rather gangly fashion, producing fruit throughout the growing season, and in contrast to a determinate tomato plant, which grows in a more bushy shape and is most productive for a single, larger harvest, then either tapers off with minimal new growth/fruit, or dies.

- Traditional varieties do not allow high density planting as their plant type is indeterminate and spreading type.

- Thus, suitability to high population density of this line allows uniform plant density and ultimately uniform plant stand and thereby reduces losses in yield due to seedling (A young plant, especially one that grows from a seed) mortality.

- In the form of Pusa Arhar 16 ICAR-IARI has tailored a new plant type (NPT) arhar in line with semi-dwarf rice and wheat.

- The NPT arhar requires a modified agronomy (the science of soil management and crop production.) for maximizing the productivity with reduced cost of cultivation, which has been developed.

- All items of farm machinery used for wheat from sowing to harvesting are fully utilizable for cultivation of NPT Arhar.

- Pusa Arhar 16 allows effective spraying of insecticide even with Knapsack sprayer for effective control of insects due to compactness and dwarfness.

- This new plant type, with synchronous maturity, is also suitable for combine harvesting and thus does not require manual laborers for harvesting (crops are cut and collected from the fields) and threshing (separate grain from the plant).

- Harvesting and threshing in traditional varieties

require more manpower and time thereby increasing the cost of cultivation and chances of losses due to damage by untimely rains.

- This extra early line also allows growing of mustard/potato/wheat in rabi after harvest of pigeonpea (arhar) successfully.
- Moreover, as this line is extra early maturing (120 days) it allows flexibility of sowing from onset (start) of monsoon (5th June) to even up to 1st week of July.

25. Gravitational waves are 'ripples' in the fabric of space-time caused by some of the most violent and energetic processes in the Universe. Albert Einstein predicted the existence of gravitational waves in 1916 in his general theory of relativity.

32. Dr Rangaswamy Srinivasan is the only scientist of Indian-origin celebrated in the US National Inventors' Hall of Fame in Akron, Ohio, alongside such legends as Thomas Edison, Henry Ford, Samuel Morse, and Wright brothers, to name a few.

35. Argo is an international program that uses profiling floats to observe temperature, salinity, currents, and, recently, bio-optical properties in the Earth's oceans; it has been operational since the early 2000s. The real-time data it provides is used in climate and oceanographic research. A special research interest is to quantify the ocean heat content (OHC).

36. The Chairman is appointed by the Speaker of Lok Sabha. It is formed every year.

37. ➤ A very similar variant of EptA called MCR-1 was discovered in 2015 causing resistance to colistin, a last resort antibiotic for bacteria untreatable by other means.
 ➤ Alarmingly, MCR-1 is not limited to a single type of bacteria, but is able to spread between different species of bacteria increasing its harmfulness significantly.

38. ➤ A team led by Dr. Kana M. Sureshan from the School of Chemistry used glucose as a starting material and through several chemical reactions produced compounds (gelators) that selectively congeal oil, including crude oil, from an oil-water mixture.
 ➤ Unlike other alternatives, the gelators, which are in a powder form, can be easily applied over oil-water mixture and do not cause any environmental damage.
 ➤ The gelator molecule is partly hydrophobic and partly hydrophilic. While the hydrophilic part helps in self-assembling to form gelator fibres, the

hydrophobic part is responsible for its diffusion into the oil layer.

- Since the outer part of the fibre is hydrophobic, oil tends to get into the spongy network made of fibres.
- Once inside the fibre network, oil loses fluidity and becomes a gel. As the self-assembly is strong, the gel maintains its structure and rigidity even under pressure.

39. ➤ Since there is no bank license, there would also not be any regulation. There would be no reserve ratios or capital ratios to maintain and therefore no need to borrow from interbank markets. The shadow banks will be able to perform every function of banking except accept deposits from the public. Since most of the shadow banks have no interest in accepting deposits anyways, the arrangement works perfectly fine.

40. ➤ Services provided by the NALSA include free legal aid in civil and criminal matters for the poor and marginalised people who cannot afford the services of a lawyer in any court or tribunal.
 ➤ NALSA identifies specific categories of the marginalised and excluded groups and formulates various schemes for the implementation of preventive and strategic legal service programmes.

41. ➤ National Aeronautics and Space Administration (Nasa) scientists have developed a new instrument that may "sniff" for signs of life on Mars, inspired by a sensing technique used to monitor the air for life-threatening chemicals and bio-hazards.

➤ The **Bio-Indicator Lidar Instrument (BILI)** is a fluorescence-based lidar, a type of remote-sensing instrument similar to radar in principle and operation. Instead of using radio waves, however, lidar instruments use light to detect and ultimately analyse the composition of particles in the atmosphere.

42. ➤ Trans fat is linked to heart disease. This kind of fat has been shown to raise bad cholesterol and lower good cholesterol—which can increase risk of heart problems and even type-2 diabetes. Trans fat builds up plaque in arteries, which could eventually lead to heart attack.

➤ There is a direct correlation between intake of trans fat and increased levels of low density lipoprotein.

43. ➤ Tantalum carbide (TaC) and hafnium carbide (HfC) are refractory ceramics, meaning they are extraordinarily resistant to heat. Their ability to withstand extremely harsh environments means

that refractory ceramics could be used in thermal protection systems on high-speed vehicles and as fuel cladding in the super-heated environments of nuclear reactors. However, there hasn't been the technology available to test the melting point of TaC and HfC in the lab to determine how truly extreme an environment they could function in.

44. Lack of infrastructure has hampered manufacturing and even service sectors (trade, transport), and thus debt-servicing.

45. India's reliance on fossil fuels remains well below China.

46. **Which of the following correctly describes "Fiscal Activism"?**

- (a) There is maximum concern about debt and greater emphases on public spending.
- (b) There is maximum concern about debt and greater emphases on public spending.
- (c) There is maximum concern about debt and lesser emphases on public spending.
- (d) There is minimum concern about debt and greater emphases on public spending.

Note:-

Fiscal policy deals with the taxation and expenditure decisions of the governments including debts and public spending. The path chosen by the advanced economies under fiscal activism was to shift the emphasis "from debt to spending." The more public spending is there, more will be generated economic activities. Thus, Fiscal activism implies that there is minimum concern about debt and greater emphases on public spending.

48. Interstate trade has two elements –

- Arm's length trade – Trade in which buyers and sellers act independent of each other.
- Intra-Firm trade – It means trade between parent company with its subsidiaries and affiliates.

49. ➤ Asia - Pacific Parliamentary Forum is a branch of APEC.

➤ At the end of 2014, Japan holds the largest proportion of shares at 15.7%. The United States holds 15.6%, China holds 6.5%, India holds 6.4%, and Australia holds 5.8%.

50. ➤ The world's lightest mechanical watch revealed is a key step forward into the development of more widespread applications of graphene, officials at the University of Manchester said. Graphene, first isolated in 2004 by Nobel - winning scientists at the university, is just an atom thick, and is expected to revolutionize the automotive and aerospace

industries.

➤ The watch was unveiled in Geneva. The watch was a unique collaboration with watch making brand **Richard Mille** and racing team, McLaren F1 to create **world's lightest mechanical chronograph by pairing leading graphene** research with precision engineering.

➤ The RM 50-03 watch is made using a unique composite incorporating graphene to manufacture a strong but lightweight new case to house the delicate watch mechanism.

➤ The graphene composite known as Graph TPT weighs less than previous similar materials used in watchmaking. The strap of the watch has also been improved by the addition of graphene material.

➤ The rubber of the strap was also injected with graphene which has shown to improve its mechanical properties and its resistance to wear. Overall the ultralight watch weighs just 40 grams.

52. Indira Kranti Patham (IKP) is a statewide poverty reduction project to enable the rural poor to improve their livelihoods and quality of life through their own organizations. It aims to cover all the rural poor households in the state with a special focus on the 30 lakh poorest of the poor households. It is implemented by Society for Elimination of Rural Poverty (SERP), Dept of Rural Development, Govt of AP. SERP is an autonomous society registered under the Societies Act, and implements the project through District Rural Development Agencies (DRDAs) at the District level. The Chief Minister of Andhra Pradesh is the Chairperson of the Society. IKP builds on more than a decade long, statewide rural women's self-help movement. The focus is on deepening the process, providing an institutional structure and developing a framework for sustaining it for comprehensive poverty eradication. It is the single largest poverty reduction project in South Asia.

54. In Mandal case, 1992 the scope and extent of article 16(4) which provides for reservation of jobs in favour of backward classes, has been examined thoroughly by the Supreme Court. It upheld the constitutional validity of 27% reservation for the OBCs with certain conditions: a) the advanced sections among the OBCs (the creamy layer) should be excluded from the list of beneficiaries of reservation; b) no reservation in promotion; c) A permanent statutory body should be established to examine complaints of over-inclusion and under-inclusion in the list of OBCs. Pursuant to this direction of SC, the government of India enacted

the national commission for backward classes act, 1993 for setting up a national commission for Backward Classes at the centre as a permanent body.

57. The INDUS Child Labor Project is a technical cooperation Project of the Government of India (GOI), Ministry of Labor (MOL) and Department of Education (DOE) and the United States Department of Labor (USDOL), within the framework of a “joint statement on Enhanced Indo-US cooperation on Elimination of Child Labor” signed on 31st August, 2000, by the two Governments. ILO is executing the Project.
58. West Bengal has nearly half of the country's mangroves.
60. > The first meeting of the newly constituted National Council of Senior Citizens held under the chairmanship of the Minister of Social Justice & Empowerment Shri Thaawarchand Gehlot in Aug 2016.
- > An autonomous National Council for Senior Citizens headed by the Minister for Social Justice & Empowerment was set up to promote and coordinate the concerns of older persons. The Council includes representatives of relevant Central Ministries and the Planning Commission. Five States are represented on the Council by rotation. Adequate representation is given to non-official members representing Non-Government Organisations, Academic bodies, Media and Experts on Ageing issues from different fields.
62. The Chinese stealth aircraft have strategic significance for India as besides China, Pakistan – which is producing JF-17 Thunder fighter along with Beijing - has already evinced interest in acquiring China's stealth fighter. India is yet to have stealth aircraft in its arsenal.
65. > Scientists have discovered a new ‘super Earth’ type exoplanet named as GJ 536b orbiting a very bright star near to our Sun. The planet has a very short orbital period (nearly 9 days only) which would come handy in conducting future studies of biological activity.
- > An Exoplanet is a planet that does not orbit the Sun and instead orbits a different star, stellar remnant, or brown dwarf. It is also termed as extrasolar planet.
- > Super-earths are those extrasolar planets which are larger than the Earth. However they have mass substantially below the solar system's giant planets namely Neptune and Uranus.
66. PAVA shells as an alternative to pellet guns and has recommended that the Tear Smoke Unit (TSU) of the BSF in Gwalior should be tasked with the bulk production of the shells “immediately”, with the first lot not of less than 50,000 rounds.
- > PAVA stands for Pelargonic Acid Vanillyl Amide, also called Nonivamide, and is an organic compound found characteristically in natural chilli pepper.
67. This will be the first Indian space mission to be placed at Lagrangian point L1 – far away from the Earth from where continuous solar observations are possible.
- > Only NASA and ESA have successfully placed satellites at the L1 point as of date.
68. > A liquidity trap occurs when low / zero interest rates fail to stimulate consumer spending and monetary policy becomes ineffective. In this situation, an increase in the money supply could fail to increase spending because interest rates can't fall further.
- > A liquidity trap means consumers' preference for liquid assets (cash) is greater than the rate at which the quantity of money is growing. So any attempt by policymakers to get individuals to hold non-liquid assets in the form of consumption by increasing the money supply won't work.
69. For financing strategy to work, where the funds would continue to be provided to the corporates, either of the scenario must occur-
- > **Phoenix scenario:** Under this the fund flow to the companies would be uninhibited till the point comes, where the growth in the economy would be able to resolve the existing problems with banks and companies via increased earning.
- > **Containment scenario:** This involves containing the NPAs, so that over the period of time as the economy is growing at the nominal level of 10%, they became insignificant.
- Both these approaches assume growth to take place, however as has been observed the condition of the economy is not in a good shape:
- > When looking into the stressed companies, their aggregate cash flow which even wasn't enough to service their debts has roughly by 40%.
- > Debts of the top 10 stressed corporate groups in particular, have tripled in the last six years.
71. A 'countercyclical' fiscal policy refers to the opposite approach: reducing spending and raising taxes during a boom period, and increasing spending/cutting taxes

during a recession.

74. > India INX is a wholly - owned subsidiary of the Bombay Stock Exchange (BSE). It will enable Indian firms to compete on equal footing with offshore firms.
- > India INX will initially trade in equity derivatives, currency derivatives, commodity derivatives including index and Stocks. Subsequently, it will offer depository receipts and bonds once required infrastructure is ready.
75. > Scientists have developed the first vaccine for chikungunya fever made from an insect-specific virus that does not have any effect on people, making it safe and effective.
- > The newly developed vaccine quickly produces a strong immune defence and completely protects mice and nonhuman primates from disease when exposed to the chikungunya virus.
- > Chikungunya is a mosquito-borne virus that causes a disease characterised by fever and severe joint pain, often in hands and feet, and may include headache, muscle pain, joint swelling, or rash.
77. The closed fuel cycle, which involves recycling the nuclear waste as new fuel, in the case of the MBIR project, essentially signifies research on a sodium-cooled Generation 4 fast reactor to design an advanced fast neutron reactor for use in nuclear power plants.
- > A fast neutron reactor, also known simply as a fast reactor, is a type in which the nuclear fission chain reaction is sustained by fast neutrons. Such a reactor needs no neutron moderator like normal water, which serves such a purpose in thermal reactors.
80. > As per The National Waterways Act, 2016, 111 waterways have been declared as National Waterways (NWs) including the five existing NWs. Out of the 111 NWs, NW-1, 2, & 3 are already operational. Cargo as well as passenger / cruise vessels are plying on these waterways.
- > The Indian Maritime University (IMU) is a Central University, which was established by an Act of the Indian Parliament namely the Indian Maritime University Act 2008, on 14 November 2008. It is the only university in the country imparting quality education in the maritime field. It has an All-India jurisdiction and the headquarters is at Chennai.
86. The invasion was controversial at the time as it did not have explicit approval from the UN Security Council, while claims that Iraqi leader Saddam Hussein had weapons of mass destruction proved unfounded.
87. Chinese scientists have discovered a small molecule (new drug) named XMU-MP-1 that can regenerate tissue. It has potential to eliminate transplants of some organs.
- > 'MICA' abbreviated to "Missile d'interception, de combat et d'autodéfense" in French meaning, "interception, combat and self-defence missile". The Mica missiles are known to have a high level of tactical flexibility with multi-mission, multi-target Beyond Visual Range (BVR) capability. It is also known to perform well in Enhanced Short Range (SR). Mica missiles are known to have an operational range of 50 km and measure 3.1 meters in length.
- > A fast neutron reactor is a type in which the nuclear fission chain reaction is sustained by fast neutrons. It also known as a fast reactor. Such a reactor needs no neutron moderator like normal water, which serves such a purpose in thermal reactors.
88. > The SDI seeks to help countries identify gaps that must be closed in order to achieve SDGS by 2030 and to identify priorities for early action. The new index was launched by Sustainable Development Solutions Network (SDSN) and the Bertelsmann Stiftung. Methodology: SDI ranks countries based on their performance across the 17 global SDGs. The index helps countries to identify priorities for early actions.
- > UN Secretary-General Ban Ki-moon announced (Aug 2012 News) the launch of the Sustainable Development Solutions Network (SDSN), an independent global network of research centers, universities and technical institutions aiming to mobilize scientific and technical expertise for problem-solving in relation to sustainable development. The Network is headed by UN Special Advisor on Millennium Development Goals (MDGs) Jeffrey Sachs.
91. Li-Fi technology will in future enable faster, more reliable internet connections, even when the demand for data usage has outgrown the available supply from existing technologies such as 4G, LTE and Wi-Fi. It will not replace these technologies, but will work seamlessly alongside them.
- > Using light to deliver wireless internet will also allow connectivity in environments that do not

currently readily support Wi-Fi, such as aircraft cabins, hospitals and hazardous environments.

- Light is already used for data transmission in fibre-optic cables and for point to point links, but Li-Fi is a special and novel combination of technologies that allow it to be universally adopted for mobile ultra high speed internet communications.
- The term Li-Fi was coined by pureLi-Fi's CSO, Professor Harald Haas, and refers to light based communications technology that delivers a high-speed, bidirectional networked, mobile communications in a similar manner as Wi-Fi.
- Li-Fi is a category of Optical Wireless Communications (OWC). OWC includes infra-red and ultra-violet communications as well as visible light. However, Li-Fi is unique in that the same visible light energy used for illumination may also be used for communication.

92. ➤ The millimeter-wave region of the electromagnetic spectrum corresponds to radio band frequencies of 30 GHz to 300 GHz and is sometimes called the Extremely High Frequency (EHF) range. The high frequency of millimeters waves as well as their propagation characteristics (that is, the ways they change or interact with the atmosphere as they travel) makes them useful for a variety of applications including transmitting large amounts of computer data, cellular communications, and radar.
- Only NASA and ESA have successfully placed satellites at the L1 point as of date.
93. ➤ It will be implemented by Gram Sabhas with the technical and managerial support of the forest personnel.
- It is not merely a plantation program. Another important aspect of it is to eliminate poverty. It will address livelihood problems of about 15 million poor people and will also ensure implementation of the Forests Rights Act.
95. The Public Sector Asset Rehabilitation Agency or PARA will be an independent entity that will identify the largest and most vexatious NPA accounts held by banks, and then buy these out from them. By consolidating problem accounts across banks, the PARA is expected to solve two problems.
1. it can effect speedier settlements with borrowers by cutting out individual banks.
 2. as a single large lender, it can drive a better bargain with borrowers and take more stringent enforcement action against them. PARA is

expected to raise capital for its buyouts by issuing government securities, tapping the capital markets or receiving a capital infusion from the RBI.

- PARA is just a new version of the 'bad bank' idea that has been doing the rounds for some time now.

96. The headline inflation is measured by the Consumer Price Index.

98. Kuchipudi is performed to classical Carnatic music.

99. South Asia Satellite or GSAT-9 is a 2,230-kg communication spacecraft.

Crackingias.com

9884554654

Raja Sir's

SERIOUS IAS ASPIRANTS
➤➤ CAN JOIN US <<<


CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

GS MAINS 2017 Score Maximiser
Classes from June 25, 2017
NO CROWD.

ONLY 25 PER BATCH.

Only Institute in Chennai
Teaches Writing Skills & Equips you well

*GS 1 & 2

Sail thru GS Ocean

Early Bird
Offer

*GS 4 Ethics

None teaches better than us.

Till May 5
SAVE 5000

*GS 3

Redefining Economics & Science

FREE ESSAY
PROGRAMME

*Essay Enrichment

Real Time Essay Expert

Quality Study Materials

No Bookish Teaching

CALL/SMS/ Whats App Your Name to : 98845 54654

2nd Floor. New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar. CH-40. Land mark: ABOVE ADYAR BAKERY

Answers

1.	D	11.	A	21.	B	31.	C	41.	D	51.	D	61.	A	71.	B	81.	D	91.	D
2.	B	12.	D	22.	B	32.	B	42.	B	52.	B	62.	C	72.	D	82.	A	92.	B
3.	A	13.	C	23.	A	33.	A	43.	C	53.	C	63.	C	73.	C	83.	D	93.	C
4.	D	14.	C	24.	A	34.	D	44.	C	54.	C	64.	D	74.	B	84.	D	94.	B
5.	B	15.	D	25.	A	35.	B	45.	B	55.	A	65.	C	75.	A	85.	B	95.	C
6.	D	16.	A	26.	D	36.	C	46.	D	56.	A	66.	A	76.	C	86.	B	96.	C
7.	C	17.	A	27.	B	37.	B	47.	A	57.	A	67.	A	77.	B	87.	B	97.	A
8.	C	18.	B	28.	A	38.	D	48.	A	58.	B	68.	D	78.	A	88.	C	98.	A
9.	C	19.	C	29.	C	39.	D	49.	D	59.	A	69.	A	79.	C	89.	C	99.	C
10.	B	20.	D	30.	C	40.	B	50.	C	60.	A	70.	A	80.	C	90.	A	100.	A

Explanations

3. This dance form is predominantly seen in the states of Odisha, West Bengal and Jharkhand.
5. Kenya now has de facto control of the area. The dispute arose from unclear wording of the 1914 treaty in which the provisional straight parallel was a temporary line to be used only until a new line (not finalised until the 1930s) could allow for the movements of the Turkana people—nomadic herders who had traditionally grazed the area. The perceived economic marginality of the land as well as decades of Sudanese conflicts are two factors that have delayed the resolution of the dispute.
8.
 ➤ The Government has constituted an Expenditure Management Commission (EMC) through Resolution dated 4th September, 2014. The EMC has started its functioning.
 ➤ EMC will look into various aspects of expenditure reforms to be undertaken by the Government such as review of the institutional arrangements including budgeting process and Fiscal Responsibility and Budget Management (FRBM) rules, suggest ways to improve allocative efficiencies in the existing expenditure classification system, and other issues concerning Public Expenditure Management.
10.
 ➤ The three forms are called elemental (or metallic) mercury, inorganic mercury compounds, and organic mercury compounds. Elemental mercury is liquid at room temperature. It is used in some thermometers, dental amalgams, fluorescent light bulbs, some electrical switches, mining, and some industrial processes.
11.
 ➤ Mahabhashya was written by Patanjali.
 ➤ It is a commentary on selected rules of Sanskrit grammar from Panini's treatise, the Ashtadhyayi and Katyayana's Varttika.
13.
 ➤ Assam-based ecologist and conservation activist Bibhuti Lahkar has become the first Asian to be awarded the prestigious Heritage Heroes Award by the International Union for Conservation of

Nature (IUCN).

16.
 ➤ Reserve Bank of India issued guidelines allowing domestic companies to raise rupee-denominated overseas bonds. Subsequently, India Infrastructure Finance Co. Ltd (IIFCL), Indian Railway Finance Corp. Ltd (IRFC) and NTPC Ltd were among the state-owned companies to begin the groundwork to issue rupee-denominated bonds sometime early next year.
 ➤ Rupee-denominated bonds will help these institutions raise cheaper funds from overseas markets, simultaneously shifting the burden of hedging against foreign currency fluctuations to the investors buying these bonds.
 ➤ To encourage more investors to subscribe to these issuances, the government recently announced some tax sops for investors, including lower withholding tax and exemption from capital gains arising out of currency fluctuations.
 ➤ So far, only the International Finance Corp., a unit of the World Bank Group, has issued the so-called masala bonds. These bonds are listed on the LSE.
 ➤ These efforts are part of the broader India-UK strategic partnership envisaged during Prime Minister Narendra Modi's recent UK visit.
17. The dialogue gathers military representatives from some of the world's most powerful countries to discuss pressing and significant defence and security issues. INDIA is also a participant.
19.
 ➤ Most countries around the world rely on sovereign debt to finance their government and economy. When this debt is used in moderation, it can position an economy to grow more quickly. But too much debt can lead to a number of problems. The debt-to-GDP ratio is designed to help investors determine if a country has too much debt.
 ➤ The debt-to-GDP ratio itself is an equation with a country's gross debt in the numerator and its gross domestic product (GDP) in the denominator.
 ➤ Therefore, a debt-to-GDP ratio of 1.0 (or 100%) means that a country's debt is equal to its gross

domestic product. In general, the debt-to-GDP ratio is used to determine the health of an economy.

20. Refer - <http://www.thebetterindia.com/25528/7-rare-and-exotic-wildlife-species-that-can-be-found-in-india/>

24. In India, it includes the Manas Tiger Reserve and in Bhutan, the forested areas of south covering the Royal Manas National Park, Phibsoo Wildlife Sanctuary and Jomotshangkha Wildlife Sanctuary.

25. ➤ Terrapro Recycling is a startup launched to address one of the most neglected and unorganised sectors in India. Electronic waste management, or e-waste management, has emerged as one of the most toxic waste streams in the world, and India is the fifth largest producer of such waste in the world. An astonishing 95 percent of this waste is entering the unorganised sector and polluting the environment. Responsible recycling, a zero landfill policy, a stop to child labour, and a pollution-free society are some of the visions which form the core of Terrapro.

➤ Terrapro is India's first Producer Responsibility Organisation (PRO), founded by Hemant Bagai and Maanik Bagai. A PRO is a European concept whereby the producer's responsibility of managing the waste is transferred to the PRO. A PRO's aim is to bring in more efficiency, cost-effectiveness and awareness while managing the end-to-end operations associated with waste management. A key feature driving an effective waste management under this arrangement is targeted approach towards waste management.

32. On a 125-day journey across India, 'Bhim Yatra' has been highlighting the poor implementation of the Anti-manual Scavenging Act in the country.

33. ➤ Coringa: Andhra Pradesh
 ➤ Coondapur: Karnataka
 ➤ Veldur: Maharashtra
 These are all Mangrove Sites.

39. ➤ The GHI is calculated by taking into account four indicator parameters. They are (i) Undernourished population (1/3rd weight), (ii) Child wasting (1/6th weight), (iii) Child stunting (1/6th weight) and (iii) Infant mortality rate (1/3rd weight).

➤ The index was released by the International Food Policy Research Institute (IFPRI).

40. ➤ It makes graphene fabrication fast, simple, safe, potentially scalable and integration friendly.

➤ Graphene is a carbon material that is one atom

thick. It is the world's strongest and lightest known material derived from carbon.

➤ It has high conductivity and excellent electronic, mechanical, thermal and optical properties.

➤ It is used in many applications ranging from miniaturised electronics to biomedical devices, water filtration and purification, renewable energy, sensors, personalised healthcare and medicine etc.

41. The Humayun's tomb is the first garden-tomb in India. It was also the first structure to use red sandstone at such a scale. The tomb was declared a UNESCO World Heritage Site in 1993. This was the first splendid monument of the times of Akbar, created mainly in red sandstone and white marble.

42. ➤ The International North-South Transport Corridor (INSTC) is a 7,200 km long multi-mode network of ship, rail, and road route for moving freight between India, Russia, Iran, Europe and Central Asia. The route primarily involves moving freight from India, Iran, Azerbaijan and Russia via ship, rail and road.

➤ The objective of the corridor is to increase trade connectivity between major cities such as Mumbai, Moscow, Tehran, Baku, Bandar Abbas, Astrakhan, Bandar Anzali, etc.

➤ Dry runs of two routes were conducted in 2014, the first was Mumbai to Baku via Bandar Abbas and the second was Mumbai to Astrakhan via Bandar Abbas, Tehran and Bandar Anzali. The objective of the study was to identify and address key bottlenecks. The results showed transport costs were reduced by "\$2,500 per 15 tons of cargo". Other routes under consideration include via Kazakhstan and Turkmenistan.

➤ This will also synchronize with the Ashgabat agreement, a Multimodal transport agreement signed by India, Oman, Iran, Turkmenistan, Uzbekistan and Kazakhstan, for creating an international transport and transit corridor facilitating transportation of goods between Central Asia and the Persian Gulf.

46. ➤ Approvals for confined field trials of several GM crops for generation of biosafety data both from the private and public sector institutions have been given for certain crops.

➤ These include transgenic maize, rice, tomato, potato, castor, rubber, cotton, brinjal, mustard, groundnut, sorghum, wheat, watermelon, papaya, sugarcane, banana, pigeon pea, chickpea, artemisia.

49. > First-generation biofuels are those which are made from feed-stocks that can also be consumed as human food. Whether it is sugar, starch, or vegetable oil, all of them are also human food products which make them a first-generation fuel. The feed-stocks that typically top this list for first-generation fuels include food crops like corn, sugarcane, sugar beet, wheat and sorghum.
- > Second-generation fuels are also produced from sustainable feedstock but, in this case, these feed-stocks are not normally used for human consumption. That is, no second-generation feedstock is also a food crop, though certain food crops may become second-generation fuels if and when they're no longer useful for consumption.
- > Second-generation non-food feed-stocks include woody crops and agricultural residues or waste, which are a little more difficult to extract. For this reason, advanced conversion technologies are needed in the process, which is also why second-generation bio-fuels are known as "advanced bio-fuels."
- > Second-generation technologies cover a wider range of biomass resources, from agriculture to forestry and waste materials. One well-known second-generation technology is called lingo-cellulosic processing, which uses forest materials.
- > The plus side of second-generation bio-fuels is the increased efficiency that uses the vast majority of the biomass feedstock which avoids the waste seen in first-generation bio-fuels production.
53. A Raga is a series of five or more notes. They are classified according to the time of day or night for which they are the most appropriate. For instance:
1. Bhairava : Performed at dawn
 2. Megha: Performed in morning
 3. Dipaka and sriraga : Performed in the afternoon
 4. Kuashika and Hindola : at night
54. > The Kaziranga National Park has on its North the river Brahmaputra, entire stretch of which from Golaghat district boundary on the east to the Kaliabhomora bridge on Brahmaputra in the west.
58. > Constitution does not specify the castes or tribes which are to be called the SCs or the STs.
- > It leaves to the President the power to specify as to what castes or tribes in each state and union territory are to be treated as the SCs and STs. Thus, the lists of the SCs or STs vary from state to state and union territory to union territory.
- > In case of the states, the President issues the notification after consulting the governor of the state concerned. But, any inclusion or exclusion of any caste or tribe from Presidential notification can be done only by the Parliament and not by a subsequent Presidential notification.
- > Similarly, the Constitution has neither specified the BCs nor used a single uniform expression to characterize the BCs.
60. > Arsene Dumont (1849-1902) has propounded the Theory of Social Capillarity. Social attraction or repulsion to a thing is known as Social Capillarity. Dumont studied the growth of population in France in the later part of nineteenth century and found that the reason for low fertility in France was high intellectual and aesthetic development.
- > In the words of Dumont, "The development of number in a nation is in inverse ratio to the development of individual."
61. April 28 marks the 200th Anniversary of the Rush Bagot Treaty, an agreement between the United States and Great Britain limiting naval armaments on the Great Lakes and Lake Champlain.
63. West Bengal has nearly half of the country's mangroves.
64. > The reverse of the statements are true.
- > In FF refrigerator, the defrost mechanism in a refrigerator heats the cooling element (evaporator coil) for a short period of time and melts the frost that has formed on it. There has been gradual consumer preference shift towards frost free segment.
68. Directorate of Currency under the Ministry of Finance.
71. 1) The Kohinoor was mined from the Golconda region of Andhra Pradesh during the Kakatiya dynasty's reign.
 2) Originally weighing 793 carats, its weight was subsequently reduced over the centuries after it was cut several times. It now weighs around 105 carats.
 3) After the subjugation of Punjab in the Second Sikh War in 1849, Duleep Singh, the last Sikh ruler of Punjab, was ordered by the then governor general of India, Lord Dalhousie, to personally hand over the Kohinoor to the British Queen.
 4) In 1852, Queen Victoria decided to reshape the diamond and it was cut down to 108.93 carats.
 5) After Queen Victoria's death, the Kohinoor was set in the crown of Queen Alexandra, the wife of Edward VII, that was used at their coronation in

1902. The diamond was transferred to Queen Mary's crown in 1911, and finally to Queen Elizabeth's crown in 1937. When the Queen Mother died in 2002, it was placed on top of her coffin for the lying-in-state and funeral.

6) The diamond is apparently cursed. A Hindu text dating back to 1306, when the Kohinoor's appearance was first recorded, apparently stated that only a woman could wear the stone, and "misfortunes" would befall any male owner.

7) It's not just India which is demanding the return of the Kohinoor. Pakistan, where the diamond is said to have been surrendered last, too has asked for the possession of the precious stone

72. > The Mekong-Ganga Cooperation (MGC) is an initiative by six countries – India and five ASEAN countries, namely, Cambodia, Lao PDR, Myanmar, Thailand and Vietnam for cooperation in tourism, culture, education, as well as transport and communications. So, both 1 and 2 are wrong.
- > Both the Ganga and the Mekong are civilizational rivers, and the MGC initiative aims to facilitate closer contacts among the people inhabiting these two major river basins.
- > India-Myanmar-Thailand Trilateral Highway project and Hanoi Programme of Action (HPA) are some of the key projects being monitored by MCG.

75. > The Codex Alimentarius Commission (CAC) was created in 1961/62 by Food and Agriculture Organization of the United Nations (FAO) and the World Health Organization (WHO), to develop food standards, guidelines and related texts such as codes of practice under the Joint FAO/WHO Food Standards Programme. The main purpose of this Programme is to protect the health of consumers, ensure fair practices in the food trade, and promote coordination of all food standards work undertaken by international governmental and non-governmental organizations.
- > "Codex India" the National Codex Contact Point (NCCP) for India, is located at the Directorate General Of Health Services, Ministry of Health and Family Welfare (MOH&FW), Government of India. It coordinates and promotes Codex activities in India in association with the National Codex Committee and facilitates India's input to the work of Codex through an established consultation process.

79. King Dharmapala (r. 770–810) of the Pala dynasty

(750–1174) established the Vikramashila University in the late 8th or early 9th century with the intention of enhancing Buddhist scholasticism. The university not only became a center for Buddhist learning, but also taught occult sciences, metaphysics, logic, grammar, and philosophy. The famous Buddhist teacher Atisha Dipankara Srijnana (980–1054) was an abbot there, and the university produced other eminent Buddhist teachers who were invited to teach Buddhism in other countries.

80. > BharatNet is a project of national importance to establish, by 2017, a highly scalable network infrastructure accessible on a non-discriminatory basis, to provide on demand, affordable broadband connectivity of 2 Mbps to 20 Mbps for all households and on demand capacity to all institutions, to realise the vision of Digital India, in partnership with States and the private sector.
- > The entire project is being funded by Universal service Obligation Fund (USOF), which was set up for improving telecom services in rural and remote areas of the country. The objective is to facilitate the delivery of e-governance, e-health, e-education, e-banking, Internet and other services to the rural India.

82. **Later Vedic Period Crops**

Name	
Barley	Yava
Rice	Vrihi
Sugarcane	Ikshu
Wheat	Godhuma

- > Famous pottery of this age was 'Painted Grey Ware' and 'Northern Black Polished Ware.'
- > Term Rashtra (Territory) appeared for the 1st time in this period
83. > The material, nicknamed 'thubber', is an electrically insulating composite that exhibits an unprecedented combination of metal-like thermal conductivity, elasticity similar to soft, biological tissue, and can stretch over six times its initial length.
- > The key ingredient in "thubber" is a suspension of non-toxic, liquid metal micro-droplets.
- > The liquid state allows the metal to deform with the surrounding rubber at room temperature. When the rubber is pre-stretched, the droplets form elongated pathways that are efficient for heat travel.
84. Point Pedro is in Jaffna District, Sri Lanka, at the northernmost point of the island.

87. > MoEFCC and US Government signed an agreement in 2000 to implement the Globe programme in India. **Indian Environmental Society is an implementing agency for Globe in India.**
- > The goals of Globe are to enhance the environmental awareness of individuals throughout the world, to contribute to scientific understanding of the Earth and to help all students reach higher levels of achievement in science and mathematics.
95. > The scheme "Upgrading the Skills and Training in Traditional Arts/Crafts for Development (USTTAD) was launched in May, 2015 and following activities have been taken up to assist the artisans:
- > "Shilp Utsav" component of the scheme has been implemented through National Minorities Development and Finance Corporation (NMDFC) to provide support to minority craftsmen/ artisans for marketing their products. NMDFC has held 8 exhibitions in the States of Haryana, Karnataka, Gujarat, West Bengal, Uttar Pradesh, Maharashtra and Delhi, including a "Hunar Haat" in the India International Trade Fair (IITF) 2016, and assisted 719 artisans to enable them to establish national and global market linkages.
- > The Ministry has also engaged Knowledge Partners viz. National Institute of Fashion Technology (NIFT) and National Institute of Design (NID) to work in various clusters for design intervention; product range development; packaging; exhibitions, fashion shows and publicity; tying up with e-marketing portals to enhance sales; and brand building. Both the institutions have identified total 36 craft clusters with 20-30 artisans in each cluster for their capacity building.
96. > The Economic Intelligence Council is the apex forum overseeing government agencies responsible for economic intelligence and combating economic offences in India. The Council is also the apex of 18 regional economic intelligence committees, and is part of the Union Ministry of Finance. It was formed in 1990.
- > Its chief members include the Governor of the Reserve Bank of India (RBI), Chairman of the Securities and Exchange Board of India (SEBI) and the Directors of the Central Bureau of Investigation (CBI), Narcotics Control Bureau (NCB) and the Directorate of Revenue Intelligence.
99. > Fifteen Indian bird species are part of a list of

avians which are evolutionarily distinct and globally endangered. The Zoological Society of London (ZSL) and Yale University has come out with a study of 100 Evolutionarily Distinct and Globally Endangered (EDGE) species worldwide.

- > The study says Bengal Florican, Lesser Florican, Great Indian Bustard, Sociable Lapwing and Jerdon's Courser are birds that are under threat due to the destruction of their habitat of grasslands and scrub forests. The survival of Spoon-billed Sandpiper, Siberian Crane and White-bellied Heron greatly depend on the existence of their wetland habitat.
- > Forest Owlet's survival is impossible if its habitat of deciduous forests in central India is destroyed, the study said. Officials of the Bombay Natural History Society (BNHS), which works on the conservation of 12 of these threatened birds, said these species were threatened by human factors such as uncontrolled urbanization, unsustainable industrialization and rampant use of chemicals in agriculture.

Crackingias.com

SERIOUS IAS ASPIRANTS
>> CAN JOIN US <<

9884554654

Raja Sir's


CRACKING
IAS ACADEMY
Since 2005 — Feel the Pulse of UPSC...

GS MAINS 2017 Score Maximiser
Classes from June 25, 2017
NO CROWD.

ONLY 25 PER BATCH.

Only Institute in Chennai
Teaches Writing Skills & Equips you well

* GS 1 & 2

Sail thru GS Ocean

Early Bird
Offer

* GS 4 Ethics

None teaches better than us.

Till May 5
SAVE 5000

* GS 3

Redefining Economics & Science

FREE ESSAY
PROGRAMME

* Essay Enrichment

Real Time Essay Expert

Quality Study Materials

No Bookish Teaching

CALL/SMS/ Whats App Your Name to : 98845 54654

2nd Floor. New.No.59 (Old no. 1228), 18th Main Road,
Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY

Call: us: 09884554654

Political Science, Sociology, General Studies, Essay & CSAT

IAS Express – a monthly current affairs booklet

5

Answers

1.	D	11.	A	21.	A	31.	D	41.	A	51.	C	61.	C	71.	C	81.	B	91.	A
2.	A	12.	A	22.	C	32.	A	42.	A	52.	D	62.	A	72.	D	82.	A	92.	B
3.	B	13.	A	23.	B	33.	A	43.	D	53.	A	63.	A	73.	A	83.	C	93.	B
4.	C	14.	A	24.	C	34.	B	44.	C	54.	A	64.	C	74.	D	84.	C	94.	D
5.	A	15.	A	25.	A	35.	C	45.	A	55.	C	65.	B	75.	A	85.	A	95.	A
6.	C	16.	B	26.	D	36.	C	46.	C	56.	B	66.	A	76.	A	86.	D	96.	B
7.	A	17.	C	27.	D	37.	A	47.	A	57.	A	67.	C	77.	C	87.	C	97.	B
8.	C	18.	A	28.	A	38.	C	48.	B	58.	A	68.	C	78.	B	88.	D	98.	C
9.	C	19.	A	29.	A	39.	C	49.	B	59.	B	69.	C	79.	A	89.	D	99.	B
10.	C	20.	A	30.	A	40.	A	50.	B	60.	B	70.	C	80.	A	90.	A	100.	A

Explanations

- UDAN is an innovative scheme to develop the regional aviation market. The objective of the scheme was “Ude Desh Ka Aam Naagrik”. Key Features. UDAN will be applicable on flights which cover between 200 km and 800 km with no lower limit set for hilly, remote, island and security sensitive regions. The scheme seeks to reserve a minimum number of UDAN seats i.e. seats at subsidized rates and also cap the fare for short distance flights.
- ✓ According to this thesis, the National Congress could play ‘a great part and a foremost part in the work of realizing the anti-imperialist people’s front.’
- Participatory Notes are issued by registered foreign institutional investors (FII) to overseas investors to invest in the Indian stock market. Participatory Notes enables large hedge funds to carry out their operations without disclosing their identity. P notes have attracted significant market attention recently because of huge inflow of foreign funds into Indian stock markets through this route.
- District Rural Development Agencies (DRDAs) are district level development execution and monitoring agencies created under the Indian Societies Registration Act.
- The Hon’ble Speaker, Lok Sabha is the President of all the Forums except the Parliamentary Forum on Population and Public Health wherein the Hon’ble Chairman, Rajya Sabha is the President and Hon’ble Speaker, Lok Sabha is the Co-President. The term of the office of members of the Forums is co-terminus with their membership in the respective Houses.
- NASA’s Cassini Spacecraft has discovered steep-sided canyons, hundreds of meters deep, on Saturn’s moon Titan. The canyons are flooded with liquid hydrocarbons. The finding represents the first direct evidence of the presence of liquid-filled channels on Titan, as well as the first observation of the deep canyons.
- Jarvis is an AI system Zuckerberg has built to control his home and perform basic tasks, such as turning the lights off or on, control a particular room’s temperature, playing music, opening doors, and so on. The home AI uses natural language processing and speech recognition to understand the user’s voice, and the context of the command, in order to perform the tasks it is asked to do. It also has facial recognition capabilities and, therefore, can open doors of the home for known guests, or tell Zuckerberg where each member of the family is, whether Max is asleep or playing around, and so on.
 - Sarin is a human-made chemical warfare agent classified as a nerve agent.
 - Sarin is also known as GB.
 - Sarin is not found naturally in the environment. It is a man-made toxin.
 - Because sarin vapor is heavier than air, it will sink to low-lying areas and create a greater exposure hazard there.
 - Sarin, along with certain pesticides and other nerve agents, belongs to a family of chemicals called organophosphates.
 - Like other nerve agents, sarin targets an enzyme within the body’s neuromuscular junctions, where nerves meet muscles. Usually, this enzyme deactivates the nerve-signaling molecule acetylcholine. But sarin stops this deactivation by blocking the enzyme.
- The Chairman is appointed by the Speaker of Lok Sabha. It is formed every year.
- SPIC MACAY is a non-political nationwide voluntary movement that organises programmes of classical music and dance, folk arts, crafts, yoga,

classic cinema screenings, heritage walks, etc. inside school and college campuses throughout the world to make students more aware about Indian and world heritage.

14. ➤ Arsene Dumont (1849-1902) has propounded the Theory of Social Capillarity. Social attraction or repulsion to a thing is known as Social Capillarity. Dumont studied the growth of population in France in the later part of nineteenth century and found that the reason for low fertility in France was high intellectual and aesthetic development.
- In the words of Dumont, “The development of number in a nation is in inverse ratio to the development of individual.”

15. ✓ The Saksham or Rajeev Gandhi Scheme for Empowerment of Adolescent Boys is the scheme launched by central government (ministry of women and child development) For the empowerment of adolescent boys or young. The main objectives of this scheme are to facilitate, educate and empower adolescent boys so as to enable them to become self-reliant, gender-sensitive and aware citizens.
- ✓ The scheme will cover all adolescent those who go to school or out of school in the age-group of 11-18, subdivided into the categories of 11-14 and 14-18. The scheme also helps in health, education, skill development of adolescent boy.

16. ● Army Design Bureau is an independent body and will be headed by a Major General as a part of ‘Make in India’ programme.
- ADB will provide a better understanding of the Army’s requirements to the academia, research organisations and the industry for developing high tech defence products.
- It will function as the Army’s interface with leading research institutions such as IITs, DRDO, academia, Defence Public Sector Units and the industry to enable them to understand and appreciate the Army’s need.

17. There was a deadlock with the congress since 1939 resignations. On June 14, 1945, Lord Wavell came out with a plan which had the following schemes: A new Executive Council was to be formed at the Centre in which all but the Viceroy and the Commander in Chief will be Indians. This executive council was for the time being till a new permanent constitution could be agreed upon and come to

force. All portfolios except the Defense would be held by the Indian Members.

22. The FSB, which comprises 24 member countries, the European Commission and numerous international bodies, is an outgrowth of the Financial Stability Forum (FSF) founded in 1999 by the member countries of the Group of Seven (G-7). The FSB was given a broader mandate with an expanded membership and the institutional heft to specifically address the vulnerabilities affecting the global financial system.

23. Under Article 82 of the Constitution, the Parliament by law enacts a Delimitation Act after every census. After coming into force commencement of the Act, the Central Government constitutes a Delimitation Commission. This Delimitation Commission demarcates the boundaries of the Parliamentary Constituencies as per provisions of the Delimitation Act. The present delimitation of constituencies has been done on the basis of 2001 census figures under the provisions of Delimitation Act, 2002. Notwithstanding the above, the Constitution of India was specifically amended in 2002 not to have delimitation of constituencies till the first census after 2026. Thus, the present Constituencies carved out on the basis of 2001 census shall continue to be in operation till the first census after 2026..

24. The Gender Inequality Index (GII) is an index for measurement of gender disparity that was introduced in the 2010 Human Development Report 20th anniversary edition by the United Nations Development Programme (UNDP). According to the UNDP, this index is a composite measure which captures the loss of achievement within a country due to gender inequality. It uses three dimensions to do so: reproductive health, empowerment, and labor market participation.

26. The report examines four overall areas of inequality between men and women in 130 economies around the globe, over 93% of the world’s population:-
1. Economic participation and opportunity – outcomes on salaries, participation levels and access to high-skilled employment
 2. Educational attainment – outcomes on access to basic and higher level education
 3. Political empowerment – outcomes on representation in decision-making structures

4. Health and survival – outcomes on life expectancy and sex ratio.
27. > The Mekong-Ganga Cooperation (MGC) is an initiative by six countries – India and five ASEAN countries, namely, Cambodia, Lao PDR, Myanmar, Thailand and Vietnam for cooperation in tourism, culture, education, as well as transport and communications. So, both 1 and 2 are wrong.
- > Both the Ganga and the Mekong are civilizational rivers, and the MGC initiative aims to facilitate closer contacts among the people inhabiting these two major river basins.
- > India-Myanmar-Thailand Trilateral Highway project and Hanoi Programme of Action (HPA) are some of the key projects being monitored by MCG.
28. Treasury Bills are short term (up to one year) borrowing instruments of the Government of India which enable investors to park their short term surplus funds while reducing their market risk. These are discounted securities and thus are issued at a discount to face value. The return to the investor is the difference between the maturity value and issue price. Any person in India including Individuals, Firms, Companies, Corporate bodies, Trusts and Institutions can purchase Treasury Bills.
29. The Chinese stealth aircraft have strategic significance for India as besides China, Pakistan - which is producing JF-17 Thunder fighter along with Beijing - has already evinced interest in acquiring China's stealth fighter. India is yet to have stealth aircraft in its arsenal.
30. April 28 marks the 200th Anniversary of the Rush Bagot Treaty, an agreement between the United States and Great Britain limiting naval armaments on the Great Lakes and Lake Champlain.
31. World's Women report is prepared by the Statistics Division of the UN Department for Economic and Social Affairs (UN DESA). Nearly two-thirds of the world's illiterate adults are women, a proportion that has remained stubbornly unchanged for the past 20 years. Of the 781 million adults over the age of 15 estimated to be illiterate, 496 million were women. Women made up more than half the illiterate population in all regions of the world.
34. CRISPR technology lets scientists selectively edit genome parts and substitute them with novel DNA fragments.
- > Cas9 is an enzyme that has the capacity to edit DNA.
35. The “IMC Suresh Kotak International ADR Centre”, which is the first International Arbitration Centre in India, was inaugurated by Bombay high court Chief Justice Mohit Shah on October 8, 2016.
37. Rotavac is developed indigenously using indigenous strain by Bharat Biotech Ltd., Hyderabad and Department of Biotechnology, Government of India. Regarding the gastroenteritis, commonly known as diarrhoea infection, children are more susceptible to infection due to weak immune system, it rarely infects adults. Generally, it is not fatal in case of adults. It is administered three times orally at 4 weeks interval, not through injection i.e. sub-cutaneous.
38. **ISRO's reusable launch vehicle platform, called Avatar**, is a concept that is capable of carrying out satellite launches – takes off vertically and lands back on a runway. The spacecraft is designed to use ramjets and scramjets for thrust. Each of these engines will be used in different stages of the flight – with ramjet used at lower speeds, scramjet at hypersonic speeds and cryogenic engines when the craft reaches the edge of the atmosphere.
40. Russia lost its bid to retain a seat on the UN Human Rights Council due to allegations of war crimes in relation to its policies in Syria. It was the first time since the UNHRC's creation a decade ago that one of the Security Council's five permanent members failed to be elected to the council.
41. • Cattle egret which is widely found in India is a natural scavenger. A study from Kerala says that the wetland egret, *Bubulcus ibis*, can be used as bio-control agent in solid-waste dumping sites.
- These birds are widely exploiting the solid waste which is rich with the larvae of disease spreading house flies (*Musca domestica*) and blue bottle flies (*Calliphora* species).
42. Mount Abu in Rajasthan is known for the Dilwara temple dedicated to Jain tirthankaras. These were built in pure white marble and adorned with exquisite sculpture. These were built under the patronage of Solanki rulers.

43. Lack of infrastructure has hampered manufacturing and even service sectors (trade, transport), and thus debt-servicing.
46. > The Economic Intelligence Council is the apex forum overseeing government agencies responsible for economic intelligence and combating economic offences in India. The Council is also the apex of 18 regional economic intelligence committees, and is part of the Union Ministry of Finance. It was formed in 1990.
- > Its chief members include the Governor of the Reserve Bank of India (RBI), Chairman of the Securities and Exchange Board of India (SEBI) and the Directors of the Central Bureau of Investigation (CBI), Narcotics Control Bureau (NCB) and the Directorate of Revenue Intelligence.
48. The 2017 theme for International Women's Day is "Women in the Changing World of Work: Planet 50-50 by 2030". The United Nations began celebrating International Women's Day (IWD) on 8 March during International Women's Year 1975.
50. A phenomenon called **Rayleigh scattering** causes light from the Sun to bounce off tiny particles in the atmosphere and scatter in different directions. Sunlight consists of many different colours: from red, which has the longest wavelength of all visible light, through to violet at the blue end of the spectrum, which has the shortest wavelength. Due to this short wavelength, blue light is scattered more effectively than other colours, and this is why the sky normally appears blue to us.
- At sunrise or sunset, however, when the Sun is low on the horizon, the light rays must pass through more of the atmosphere – and therefore bounce off more molecules – than at other times of day. This means that more blue light gets scattered away before the light reaches your eyes. Other colours – such as red, orange and yellow – can therefore continue to pass through the atmosphere unaffected, creating beautiful colours at the start and end of the day.
52. Minimum support prices are currently announced for 24 commodities including seven cereals (paddy, wheat, barley, jowar, bajra, maize and ragi); five pulses (gram, arhar/tur, moong, urad and lentil); eight oilseeds (groundnut, rapeseed/mustard, toria, soyabean, sunflower seed, sesamum, safflower seed and nigerseed); copra, raw cotton, raw jute and virginia flu cured (VFC) tobacco.
53. ✓ Halti is at the border between Norway and Finland. The peak of the fell is in Norway, about 1 km north of the border with Finland.
- ✓ Norway has decided not to gift a mountain peak to Finland to mark its 100 years of independence from Russia
54. 'Vesara' gained popularity in Deccan. It is the fusion of Nagara and Dravidian style. The Later Chalukya Dynasty and the Hoysalas used it extensively. It gave prominence to elaborate sculptures on the walls, depressed ceilings, lathe-turned pillars and fully sculptured vimanas. Temples at Belur, Halebid and Somanathpura are specimens.
56. > Constitution does not specify the castes or tribes which are to be called the SCs or the STs.
- > It leaves to the President the power to specify as to what castes or tribes in each state and union territory are to be treated as the SCs and STs. Thus, the lists of the SCs or STs vary from state to state and union territory to union territory.
- > In case of the states, the President issues the notification after consulting the governor of the state concerned. But, any inclusion or exclusion of any caste or tribe from Presidential notification can be done only by the Parliament and not by a subsequent Presidential notification.
- > Similarly, the Constitution has neither specified the BCs nor used a single uniform expression to characterize the BCs.
57. New Swarnima Special Scheme for OBC Women is the scheme by Government of India initiated to empower women from backward classes. Under the scheme women are given loan to make their financial conditions strong by finding some source of employment in the form of any small scale business. The motive is to encourage the self-employment among the women community.
58. ✓ The Ministry of Power, Government of India signed the MoU for Ujwal DISCOM Assurance Yojana (UDAY) with Tamil Nadu in New Delhi, on 9th January, 2017. Also, with the signing of the '24x7 Power For All (PFA)' roadmap document with the State, the roadmap for all the 28 States, except one, and all the 7 Union Territories in the country have now been finalized and is under implementation. It is the most significant milestone in this initiative

founded on the principles of cooperative federalism.

- ✓ Providing access to reliable and quality power supply to all citizens/ establishments by 2019 is at the core of the Prime Minister of India, Shri Narendra Modi's vision for the nation and the Ministry of Power's 24x7 PFA program is aimed at delivering on it.
- ✓ The Program has been instrumental in mainstreaming the Ministry's focus on energy efficiency and Demand Side Management interventions and has resulted in increased participation with speedy rollout of the UJALA/ DELP and other EESL led schemes. It is important to note that UJALA has emerged as the world's largest and most successful LED bulbs program.

59. - The related Nobel Memorial Prize in Economic Sciences was established by Sweden's central bank in 1968.
- Nobel Prize in Physiology or Medicine for 2015 will be shared by William C Campbell and Satoshi Omura jointly and by Youyou Tu .
 - William C Campbell and Satoshi Omura found a new way of tackling infections caused by roundworm parasites. Parasitic worms affect a third of the world's population and cause a number of illnesses, including river blindness and lymphatic filariasis.
 - River blindness is an eye and skin disease that ultimately leads to blindness. Lymphatic filariasis, also known as elephantiasis, causes painful swelling of the limbs.
 - Youyou Tu shares the prize for her discovery of a therapy against malaria.

61. ✓ Except Cheetah Rest of the all are naturally found in India. In India Cheetah are extinct in the wild or regionally extinct. Cheetahs are particularly vulnerable to habitat loss and fragmentation of their habitat. One reason for their extirpation across most of their Asian range is thought to have been the live capture of cheetahs, which were then trained to hunt deer and gazelle as sport for the aristocracy. Other key causes of the disappearance of Cheetah from the region are likely to have been depletion of wild prey, especially gazelles, the

direct killing of Cheetahs.

- ✓ Black necked crane winters mainly in remote parts in Bhutan, and Arunachal Pradesh, India. The Ramsar site Tsomoriri lake in India is said to represent the only breeding ground outside of China for the Black-necked crane.
 - ✓ The Clouded Leopard is found in the Himalayan foothills.
 - ✓ In India, Pangolin is widely distributed from the plains and lower hills south of the Himalayas to extreme southern India.
63. The Stockholm Convention on Persistent Organic Pollutants in 2011 added it in list of banned substances and phasing it out as an agricultural chemical. It is banned in over 80 nations due to its 'high toxicity.'
64. Kangra paintings often come in related sets. This painting is known as "**Kurma the Tortoise**" is from a set of Kangra Paintings of the **Bihari Sat Sa** which are based on a beautiful set of poems from Hindu mythology about the incarnations of the god Vishnu. It's found today in the National Museum of India in New Delhi. This painting depicts a tale of the eleventh incarnation of Vishnu where he took the form of a tortoise whose shell served as a pivot for the **Mandaracala Hill**, which was being used as a churning rod by the Devas and Asuras of the universe. Their back-and-forth tugging churned the sea to produce soma, the ambrosial sacred nectar which they could drink and become deathless.
66. ➤ "Hangzhou Consensus" calls on the G20 to deliver more inclusive economic growth through co-ordinated macroeconomic policy, open trade and innovation. In short, it reaffirms the group's core mandate: to make globalisation work for the benefit of all.
67. ✓ A graded response lays down stratified actions that are required to be taken as and when the concentration of pollutants, in this case particulate matter, reaches a certain level.
- ✓ The plan was prepared by the Supreme Court-mandated Environment Pollution Control Authority (EPCA), which held meetings with stakeholders from all states over several months.

69. Argo is an international program that uses profiling floats to observe temperature, salinity, currents, and, recently, bio-optical properties in the Earth's oceans; it has been operational since the early 2000s. The real-time data it provides is used in climate and oceanographic research. A special research interest is to quantify the ocean heat content (OHC).
70. Fluorinated greenhouse gases (F-gases) are a family of gases containing fluorine. They are powerful greenhouse gases that trap heat in the atmosphere and contribute to global warming. They are stronger than naturally occurring greenhouse gases and their use is regulated.
72. Dr Rangaswamy Srinivasan is the only scientist of Indian-origin celebrated in the US National Inventors' Hall of Fame in Akron, Ohio, alongside such legends as Thomas Edison, Henry Ford, Samuel Morse, and Wright brothers, to name a few.
74. Union Railway Ministry has unveiled 'Mission 41K' to save Rs. 41,000 crore on the Indian Railways' expenditure on energy consumption over the next 10 years.
75. Leigh syndrome, a mitochondrial disease. (News Three Parent Baby).
77. Sports minister Vijay Goel inaugurated 'Wall of Wishes' at India Gate Lawns, near Hyderabad House in presence of renowned boxer and Olympian Mary Kom to celebrate the Olympic mood in the country.
78. Japan-based pro-bonds, which came into existence in 2008, target professional investors and are aimed at developing Japan's bond market. Through this route, Japanese institutional investors, who are facing negative interest rates, can earn higher rates. ICICI Bank, India's largest private lender, has raised 10 billion Japanese yen (\$88 million) by selling a new series of bonds known as pro-bonds, the first issue of its kind by an Indian company.
79. The major constituents of the capability approach are functionings and capabilities.1 Functionings are the —beings and doingsl of a person, whereas a person's capability is —the various combinations of functionings that a person can achieve. Capability is thus a set of vectors of functionings, reflecting the person's freedom to lead one type of life or another.
80. • Botanical Survey of India (BSI) has brought a number of endemic/threatened plants under cultivation (ex-situ conservation) in its and associated botanic gardens.
• The names of protected species of animals, birds and plants have been mentioned at Schedule I of Wild Life (Protection) Act, 1972.
81. ➤ Ash-filled voids cannot support tree species because of poor root system development which in turn results in uprooting of trees even by low velocity winds.
➤ Contamination of ground water due to leaching of heavy metals in fly ash
➤ Reduction in recharging of ground water due to fly ash filled mine voids
84. West Bengal has nearly half of the country's mangroves.
85. • The Natural Rate of Unemployment is the rate of Unemployment when the labor market is in equilibrium.
• It is the difference between those who would like a job at the current wage rate and those who are willing and able to take a job. (Q2-Q1).
• The Natural Rate of Unemployment will therefore include:
• frictional unemployment
• structural unemployment
E.g. a worker who is not able to get a job because he doesn't have the right skills
• The natural rate of unemployment is unemployment caused by supply side factors rather than demand side factors
86. A team of scientists at Centre for Genetic Manipulation of Crop Plants of Delhi University led by former vice-chancellor Deepak Pental has bred DMH-11, a genetically modified (GM) mustard hybrid.
87. Euclid is a space-based optical/near-infrared survey mission of the European Space Agency (ESA) to investigate the nature of dark energy, dark matter and gravity by observing the geometry of the Universe and on the formation of structures over cosmological timescales.
91. **Who among the following are provided with immunity under Article 361?**
(a) President, Governor
(b) President, Governor, Prime Minister

- (c) President, Governor, Prime Minister, Chief Minister, Comptroller and Auditor General
 (d) President, Governor, Prime Minister, Chief Minister

Note:

Under the Indian Constitution there is no provision to give immunity to the Prime Minister, Chief Ministers or Ministers. Under Article 361, immunity from criminal proceedings is conferred on the President and the Governor only “during his term of office.” The line is clearly drawn. Constitutional heads who do not directly exercise executive powers are given immunity as heads of state. Active politicians such as Ministers, who cannot remain aloof from the hurly-burly of electoral and party politics, ethical or unethical, honest or corrupt, are not given any immunity. They are subject to penal laws and criminal liability.

95. Kala-azar is a slow progressing indigenous disease caused by a protozoan parasite of the genus Leishmania. In India Leishmania donovani is the only parasite that causes this disease. The parasite primarily infects the reticulo endothelial system and may be found in abundance in bone marrow, spleen and liver.
97. The Finance Ministry has set up a Public Debt Management Cell (PDMC). It is an interim arrangement and will be upgraded to a statutory Public Debt Management Agency (PDMA) in about two years. Its main purpose is to allow separation of debt management functions from RBI to PDMA in a gradual and seamless manner, without causing market disruptions. PDMC will have 15 experienced debt managers from Ministry and RBI for the required expertise. A joint implementation committee chaired by Joint secretary (Budget) will oversee the transition process of PDMC to PDMA.

Crackingias.com

 SERIOUS IAS ASPIRANTS
 >> CAN JOIN US <<

9884554654

Raja Sir's


CRACKING
 IAS ACADEMY
— since 2005 — Feel the Pulse of UPSC...

GS MAINS 2017 Score Maximiser
Classes from June 25, 2017
 NO CROWD.

ONLY 25 PER BATCH.

Only Institute in Chennai
 Teaches Writing Skills & Equips you well

* GS 1 & 2

Sail thru GS Ocean

Early Bird
Offer

* GS 4 Ethics

None teaches better than us.

Till May 5
SAVE 5000

* GS 3

Redefining Economics & Science

FREE ESSAY
PROGRAMME

* Essay Enrichment

Real Time Essay Expert

Quality Study Materials

No Bookish Teaching

CALL/SMS/ Whats App Yout Name to : 98845 54654

 2nd Floor. New.No.59 (Old no. 1228), 18th Main Road,
 Anna Nagar. CH-40. Land mark:- ABOVE ADYAR BAKERY