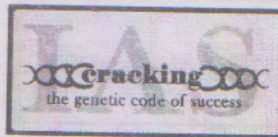


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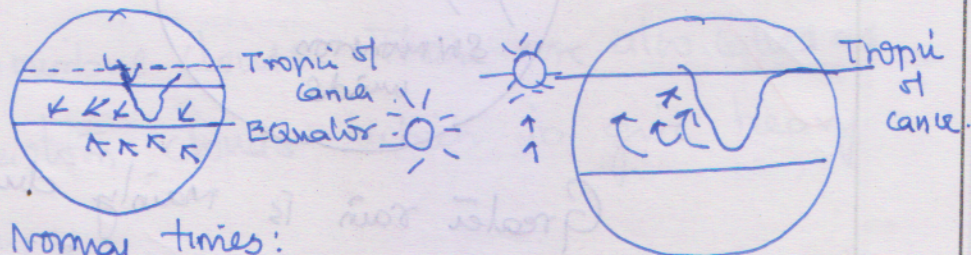
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1. South West Monsoon winds formation:

South West Monsoons are winds formed by the deflection of the trade winds of global winds. This deflection of trade winds and turn towards the India as South West Monsoon.

These winds formed due to

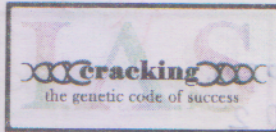
- (i) Location of the sun on the Tropic of Cancer.
- (ii) Formation of the trough in the India which low attract the high pressure winds from the Indian Ocean.



Normal times:
North east and South east trade winds converge at equator

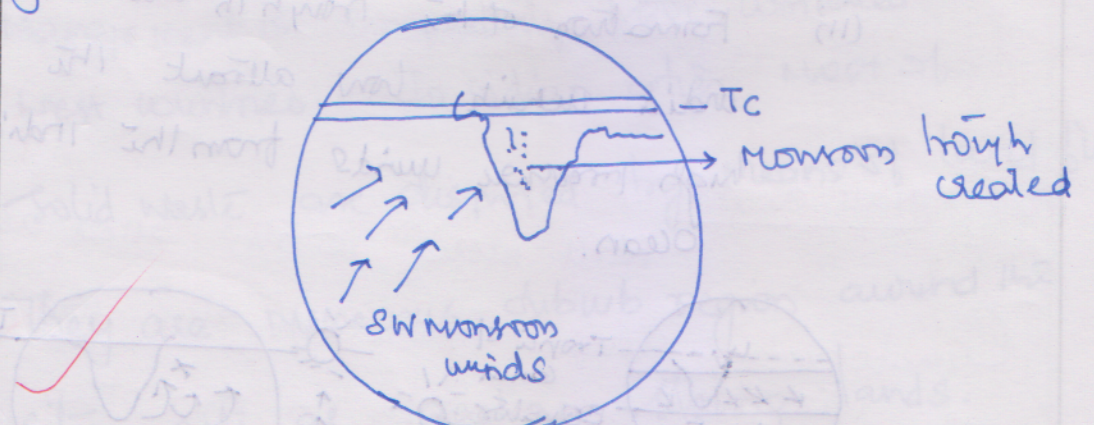
Formation of the South West monsoon winds due to the location of the sun at Tropic of Cancer.

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South West Monsoons and Rainfall in the India :-
Due to the location of ^{Sun in} Tropic of Cancer, monsoon trough is created with low pressures. This low pressure attracts the winds (South West Monsoon) towards it. These monsoon winds pick the moisture from the ocean and gives rainfall to India.

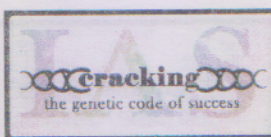


- Greater rain is mainly due to the
- (i) Monsoon trough creation
 - (ii) high pressure situation in Indian Ocean.
 - (iii) presence of warm currents along Indian Ocean.
 - (iv) Mountain location perpendicular to wind.

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2. 1. Norwesters: Norwesters are local winds formed due to local variations in the temperature pressure in the northern india. This local variation takes place during the pre-monsoon period where excessive heat developed in the northern india.

These local winds are local in character, with very hot winds which give little rain to the northern india.

2. Wall cloud:- Wall cloud is also called as Cumulonimbus clouds. These are also called as Thunderstorm clouds which give heavy downpour.

These clouds are called due to its extent. These are low lying clouds which extend upto 10km in the troposphere.

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It looks like wall which gives heavy towns now associated with thunderstorms.

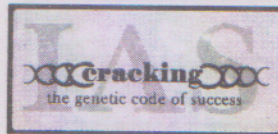
3. Solid Waste Management in Indian cities: Solid waste can be managed by various methods like land fill, incineration, treating with chemicals and conversion into fertilisers.

In India, solid waste management is comparatively poor compared to west countries. In Indian cities, most of solid waste are disposed by means of land fill.

They are numerous suburb region around the cities acts as garbage storing lands.

In some cities it treated with chemicals to form fertilisers and used as organic fertilisers.

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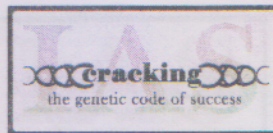
5. Indian Meteorological Department:

Indian Meteorological department uses the statistical model for the calculation of the moisture.

Indian uses the Moisture index for drought calculation. Moisture index is calculated. Moisture content which are more less than 75% is called as drought.

When the moisture content is less than 75% of the long rainfall range is referred as drought. Indian Meteorological department used this index to declare the year as drought.

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IV

Left wing extremism in India and tribal phenomenon.

Causes for left wing extremism in tribal regions

(i) Law and order institutions influence decrease from main regions. when extended into

tribal regions:

(ii) In India, tribal is attributed to morality which become easy for ideology people to influence the poor.

(iii) Communications and infrastructure like road, railways are not extended into the tribal regions.

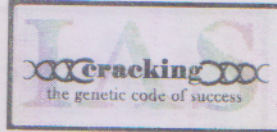
(iv) Administration in the tribal areas are ^{not} fully established.

(v) Tribal areas are mainly in the hands of some influential tribal leaders and some feudal lords which make the people difficult situation ^{for} tribal livelihood which take advantage by some ideologist of left wing.

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Measures tackle internal security

- (i) Inclusion of the tribal people and tribals into the all streams.
- (ii) Misgovernance is main problem for spread of Naxalism. Development of the hinterland. Tribal people will real solution.
- (iii) Economic upliftment of tribals and full established local government is needed. Since proper representation of tribal in mainstream politics minimal.
- (iv) Plan like Integrated action plan, Sarada plan, is needed for
- (v) Finally use of force to curtail and prevent the extension of the Naxalism.

IV. Short notes :

1. Pygmalion point, Pygmalion point is located in the Nicobar. In Andaman and Nicobar Islands. Located in India point. South extreme of the India.

2. Endemic birds and animals in India

- (i) Golden langur
- (ii) Great Indian Bustard
- (iii) Hangul.
- (iv) Chinkara deer.
- (v) Sunderban tiger
- (vi) Limited Macaque.
- (vii) Gharials.
- (viii) Olive Ridley turtles.
- (ix) Pygmy hog.

4. Seismic zone of India:

High intensity zone of India referred as seismic zone V. It includes of Himalayan region, Northeast Mountain regions, Andaman and Nicobar regions.

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Best ways of solid waste Management:

- (i) Problems is mainly due to mixing of the waste. Waste Segregation is first thing to be followed. Municipal and corporations should be followed. Separate treatment of the diff designated Wastes like Renewable, Recycle, Non Renewable.
- (ii) Investment by government in India for recycling of waste by investing in R and D.
- (iii) products must be compulsorily labeled whether recycle or not to make it easy for Segregation.
- (iv) No more legislation for ^{controlling / regulate} scrap dealers in India. Legislation is needed for it.

4. White paper on Black money: generation

III

I. Different methods to modify the cyclone:
Methods include of Natural and artificial ways.

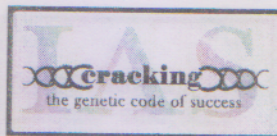
Natural ways are not human factor which Nature plays the role. cyclone is Nature core Modified by loss of heat to maintain the cyclone, which needed, depressions created near the already formed cyclone centre.

Artificial ways include

(i) Building the long barrier wall along the coastal regions.

(ii) Mangroves plantation along the coast which even modify the force of the cyclone.

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3. Differences between low, depression, and cyclone:

Low is general phenomenon on the earth. It is permanent in Nature. It is discontinuous, located along the equatorial low pressure, and sub polar low pressure.

These lows are ^{location} decided due to the shift of the sun (i.e) northward and southward migration of the sun.

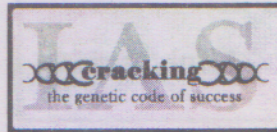
Depressions:

Local in nature. created due to local variations in temperature and pressure. Mostly found along the coastal and ocean regions. Mostly associated with cyclone.

Cyclones:

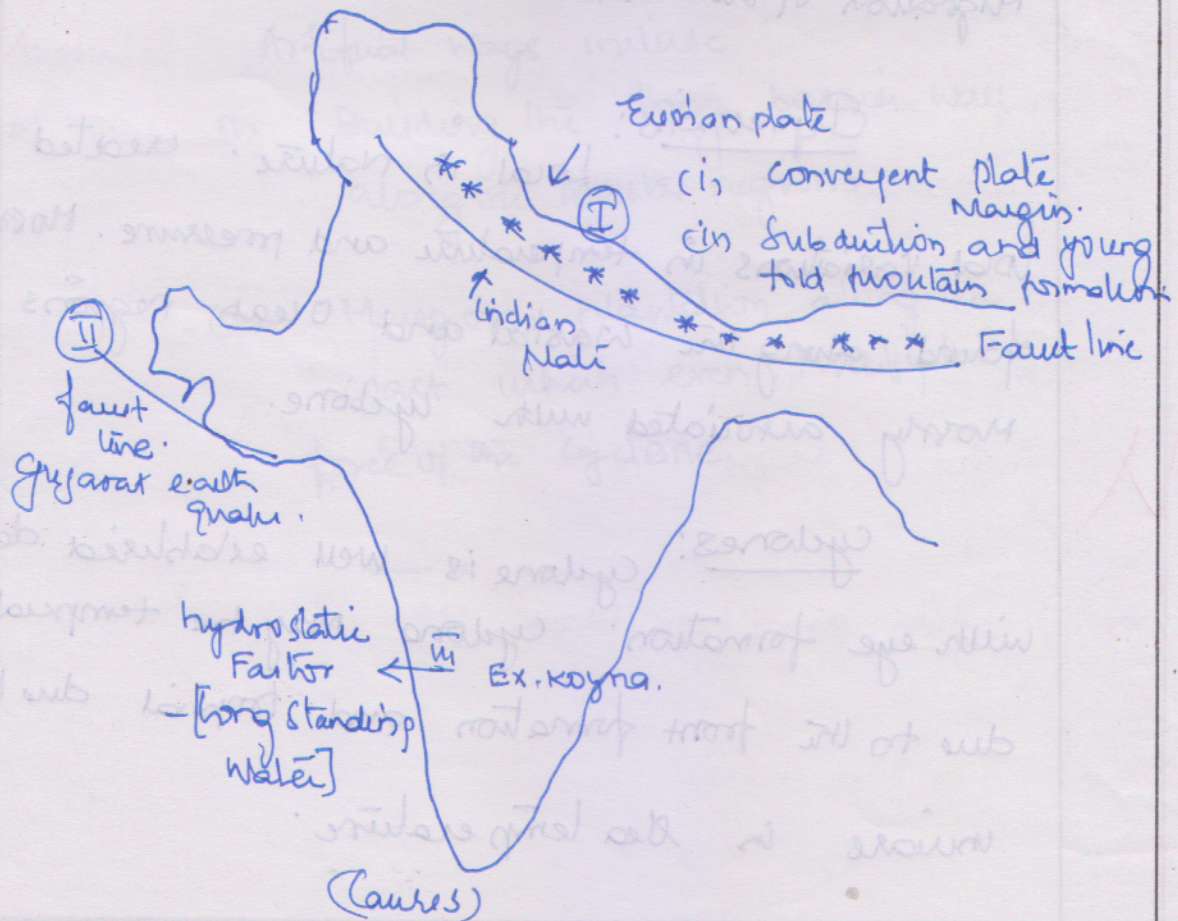
Cyclone is well established depressions with eye formation. cyclone may be temporary due to the front formation and tropical due to increase in sea temperature.

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4. Causes of Earthquakes:-
Earthquakes in India is mainly due to
- (i) location of along the plate boundaries
 - (ii) hydrostatic factors.
 - (iii) fault line along the west boundaries.
 - (iv) young fold mountains which are in state of formation

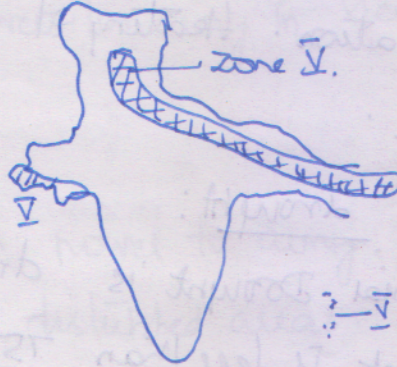


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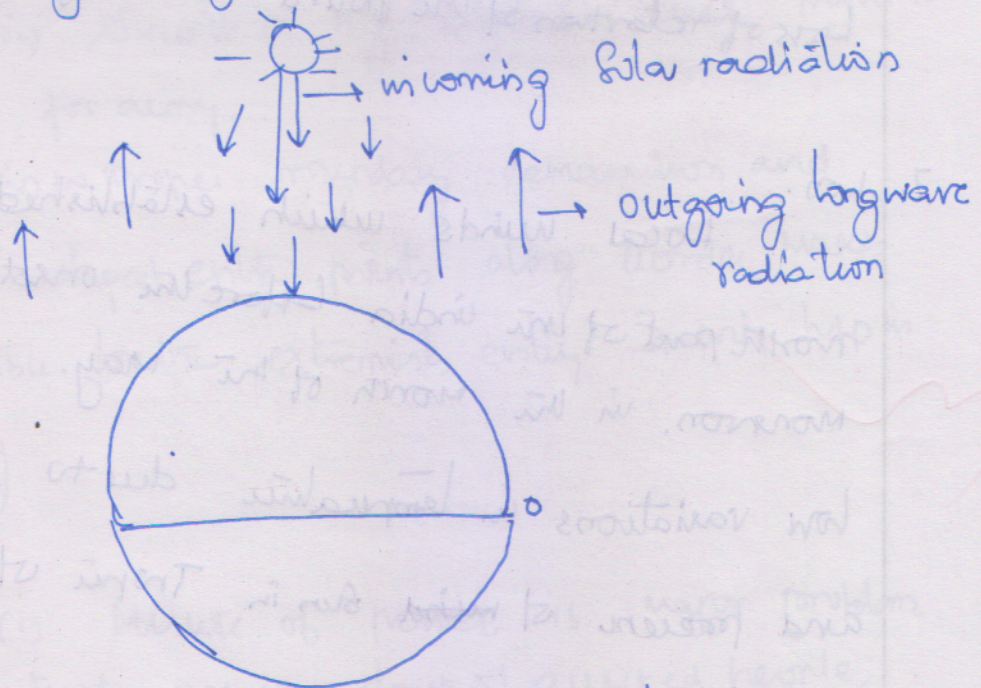
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These regions are high intensity earthquake zones of india where Richter scale is above 5. Cause due to fold regions and fault line of the india.



zone V - Seismic zones.

5. Outgoing Longwave Radiation:



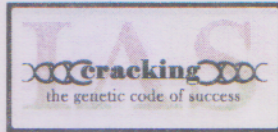
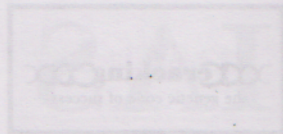
Outgoing longwave radiation is radiation which radiates from earth to atmosphere

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and space.

Importance of the radiation:

Main heating of the earth and earth atmosphere is by means of the long wave radiation. Heating of atmosphere is mainly by these.

iv 6.

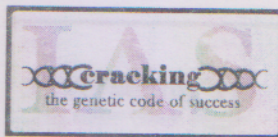
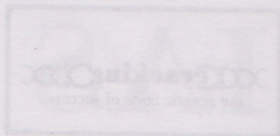
Hydrological drought:

Hydrological Drought is drought which moisture content is less than 75% of the expected. It may be due to the loss of rainfall and loss of retention of the ground water by soil.

7. Low.

Local winds which established in the north part of the India before the onset of the monsoon, in the month of the May. These low variations in temperature due to shifting and presence of wind sun in Tropics of Cancer.

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V.
6.

Repeat of AFSPA - pros/cons:
Force
Armed special power act is act which gives more powers to army in several disturbed areas.

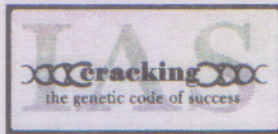
pros:

- (i) give power to army for curbing the extremism in disturbed areas.
- (ii) gives shield to armed force from extremist activities
- (iii) Since it is high extremism areas, power is needed for army.
- (iv) no proper boundary demarcation and various illegal entry points along border makes comfortable for the extremists entry. It will help in curbing

cons:

- (i) Misuse of power is major problem. Incidents of arrest, death of arrested people, rape by misuse of this power is major problem.

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(ii) It is against the Right to life and liberty established in article 14 of constitution since it gives power for search, destroy any areas, Right of privacy and Right of property are curtailed.

(iii) It gives sense of fear in people who lives in these disturbed regions.

b.

a) Capital gains tax and Vodafone cases:
in taxation by revenue department of finance create one