KULACHI HANSRAJ MODEL SCHOOL CLASS XII HOLIDAYS HOMEWORK COMPUTER SCIENCE (Session 2015-16)

Q. 1:	Differentiate between Internet and Intranet.
Q. 2:	Define the following switching techniques:
	(i) Circuit Switching
	(ii) Message Switching
	(iii) Packet Switching
Q. 3:	Define the term Bandwidth. Give unit of Bandwidth.
Q. 4:	Write two advantages and two disadvantages of the following Transmission
	media/communication channel:
	(i) Twisted Pall (ii) Co. avial
	(ii) Optical Fiber
	(iv) Radio Waves
	(v) Microwave Waves
	(vi) Satellite link
Q. 5:	Define the following Network devices:
	(i) MODEM
	(ii) Hub
	(iii) Switch
	(iv) Gateway
	(V) Bridge
	(v) Repeater
	(v) Rodler
Q. 6:	Write two advantages and two disadvantages of the following Network
	Topologies:-
	(i) STAR
	(ii) BUS
	(iii) TREE
0.7	Define the following types of Networks
Q. 7:	
	(iii) WAN
Q. 8:	Define the following Network Security Concepts:
	(i) Viruses
	(ii) Worms
	(III) Trojan horse
	(IV) Spans
Q. 9 [.]	What do you understand by the terms Cookies and Firewall?
Q. 10:	What is significance of Cyber Law? Where cyber crimes are registered?
Q. 11:	How is a Hacker different from a Cracker?
Q. 12:	Expand the following terms:
	FLOSS, FOSS, GNU, FSF, OSI, HTML, XML, HTTP, URL, PHP, ASP, JSP, TCP /
	IP, FTP, PPP, GSM, CDMA, WLL, 3G, SMS, LAN, MAN, WAN, W3C, SMTP, POP,
	Wi-Fi, VOIP,DHTML
Q. 13:	Define the following giving two examples and 2 advantages of each with their
	application
	(I) Free Software
1	L (II) Open Source Software

1		
		(ii) FLOSS
		(iii) Proprietary software
		(iv) Freeware
		(v) Shareware
Q14.		Define communication protocol. Define the following communication protocols:-
		(i) FTP
0.45		
Q 15.		What is Web scripting? Name 2 client –side and 2 server side scripting languages
Q 16.		What do you mean by Spam Mails? How can you protect your mailbox from
		Spam?
Q17.		Define the following(in one line):-
		(i) VOIP
		(ii) SMS
		(iii) WLL
		(iv) 3G
		(v) GSM
Q18.		Define the following and give 2 example of each:
		(i) Web Browser
		(ii) Web Server(no need to give example)
		(III) Web site
		(IV) URL
010		(V) Domain name
Q19.		what is web nosting? Define types of web nosting?
Q20		Define different protection method. What are IPR issues? Give 2 examples of
		cyber crimes.
		SECTION - B
Tips t	o solv	SECTION - B re Questions based on Networking
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Tips to 1. 2. 3.	o solv Whe numl Sugg sugg (i) (ii) (ii) (iii) (iii) (iv)	SECTION - B re Questions based on Networking re Server should be placed: Server should be placed in the building where the ber of computers is maximum. gest a suitable cable layout of connection: A suitable cable layout can be lested in the following two ways:- On the Basis of Server: First the location of the Server is found out. Server is placed in that building where the number of computers are maximum (According to 80 – 20 rule). After finding the server position, each building distance is compared with the Server building directly or indirectly (taking other building in between). The shortest distance is counted whether it is through directly or indirectly. On the Basis of Distance from each building: The distance between the each building is compared to all other buildings either directly or indirectly. On the Basis of Distance from each building: The distance between the each building is compared to all other buildings either directly or indirectly. On the Basis of Distance from each building: The distance between the each building is compared to all other buildings either directly or indirectly. The shortest distance is counted whether it is directly or through some other building. The the following devices be placed: MODEM : For internet connection. HUB / SWITCH : Definition: A network switch is a small hardware device that joins multiple computers together within one local area network (LAN). Technically, network switches operate at layer two (Data Link Layer) of the OSI model.



Q 22	A company in Reliance has 4 wings of buildings as shown in the
	diagram:
	W1 W2
	W3 W4
	Center to center distances between various Buildings:
	W3 to W1 50m W1 to W2 60m
	W2 to W4 25m
	W4 to W3 170m
	W3 to W2 125m
	W1 to w4 90m Number of computers in each of the wing:
	W1 150
	W2 15
	W3 15
	W4 25
	company has now decided to connect the wings also
	i) Suggest a most suitable cable layout & topology of the connection
	between the wings.
	ii) The company wants internet accessibility in all the wings. Suggest an
	economic technology.
	company wants minimized network traffic :
	1)Repeater
	2) Hub / Switch
Q 23	Hindustan Connecting World Association" is planning to start their offices in four
	in India to provide regional IT infrastructure support in the field of Education &
	Culture. The company has planned to set up their head office in New Delhi in
	three locations and have named their New Delhi offices as "Sales Office", "Head
	Office" and "Tech Office". The company's regional offices are located at "Compatere", "Kelkata" and "Abmodabad"
	A rough layout of the same is as follows:
	Approximate distances between these offices as per network survey team is as
	follows:
	Hace From Place To Distance
	Head Office Tech Office 70 Meter
	Head Office Kolkata Office 1291 KM
	Head Office Ahmedabad Office 790 KM
	Head Office Colmbatore Office 1952 KM
	In continuation of the above, the company experts have planned to install the

following number of computers in each of their offices:
Head Office 100
Sales Office 20
Tech Office 50
Kolkata Office 50
Ahmedabad Office 50
Coimbatore Office 50
(i) Suggest network type (out of LAN, MAN, WAN) for connecting each of the
following set of their offices:
- Head Office and Tech Office
- Head Office and Coimbatore Office
(ii) Which device will you suggest to be procured by the company for connecting
all the computers within each of their offices out of the following devices?
- Modem
- Telephone
- Switch/ Hub
(iii) Which of the following communication media, will you suggest to be procured
by the company for connecting their local offices in New Delhi for very effective
and fast communication?
- Ethernet Cable
- Ontical Fiber
- Telenhone Cable
(iv) Suggest a cable/ wiring layout for connecting the company's local offices
located in New
Dolbi Also suggest an offective method/technology for connecting the
company's regional
company 5 regional
unices al Nukala, Compalore and Anmedabad.

Questions based on constructor & destructor

```
1. Answer the questions (i) and (ii) after going through the following program:
#include <iostream.h>
#include<string.h>
class bazaar
{ char Type[20] ;
char product [20];
int qty;
float price ;
bazaar() //function 1
{
strcpy (type , .Electronic.) ;
strcpy (product, .calculator.);
qty=10;
price=225;
}
public :
void Disp() //function 2
{
cout<< type <<.-.<<pre>product<<.:. <<qty<< .@. << price << endl ;</pre>
}
};
void main ()
Bazaar B ; //statement 1
B. disp(); //statement 2
}
```

(i)Will statement 1 initialize all the data members for object B with the values given in the function 1 ? Justify your answer suggesting the correction(s) to be made in the above code.

(ii) What shall be the possible output when the program gets executed? (Assuming, if required _ the suggested correction(s) are made in the program).

2. Define a class Tour in C++ with the description given below

Private Members:

TCode of type string No of Adults of type integer No of Kids of type integer Kilometers of type integer **Public Members:** □ □ A constructor to assign initial values as follows: TCode with the word .NULL. No of Adults as 0 No of Kids as 0

Kilometers as 0 TotalFare as 0

□ A function AssignFare() which calculates and assigns the value of the data member Totalfare as follows

For **each** Adult

For Kilometers

Fare (Rs) 500 >=1000 300 <1000 & >=500 200 <500

For each Kid the above Fare will be 50% of the Fare mentioned in the above table For Example:

If Kilometers is 850, Noofadults =2 and NoofKids =3

Then TotalFare should be calculated as

Numof Adults *300+ NoofKids *150

i.e., 2*300+ 3 *150 =1050

□ A function EnterTour() to input the values of the data members TCode, NoofAdults, NoofKids and Kilometers ; and invoke the AssignFare() function.

□ A function ShowTour() which displays the content of all the data members for a Tour.

3. Answer the following questions (i) and (ii) after going through the following class. class Interview

{ int Month: public: interview(int y) {Month=y;} //constructor 1 interview(Interview&t); //constructor 2 };

Create an object, such that it invokes Constructor 1. (i)

Write complete definition for Constructer 2. (ii)

4. Answer the following questions (i) and (ii) after going through the following class. class Test

```
char Paper[20];
int Marks
public:
Test() //Function 1
{
strcpy(Paper,.Computer.);
Marks=0;
} //Function 2
Test(char P[])
{
strcpy(Paper,P);
```

```
Marks=0:
} //Function 3
Test(int M)
{
strcpy(Paper,.Computer.);
Marks=M:
}
Test(char P[],int M) //Function 4
{
strcpy(Paper,P);
Marks=M;
Test(Test &T); //Function 5
~Test() //Function 6
{
       cout<<"\n over";
       }
};
   (i)
```

- Which feature Object Oriented Programming is demonstrated using Function 1, Function 2, Function 3 and Function 4 in the above class text?
 Write statements in C us that would execute Function 2 and Function 4 of class
- (ii) Write statements in C++ that would execute Function 2 and Function 4 of class Text.
- (iii) Write statements in C++ that would execute Function 1 and Function 3 of class Text.
- (iv) Complete the definition of function 5
- (v) When function 6 will be executed.

INHERITANCE

1. Consider the following declarations and answer the questions given below:

#include <iostream.h>

class book {char title[20]; char author[20]; int noof pages; public: void read(); void show();}; class textbook: private textbook {int noofchapters, noofassignments; protected: int standard: void readtextbook(); void showtextbook();}; class physicsbook: public textbook {char topic[20]; public: void readphysicsbook();

- void showphysicsbook();};
- (i) Name the members, which can be accessed from the member functions of class physicsbook.
- (ii) Name the members, which can be accessed by an object of Class textbook.
- (iii) Name the members, which can be accessed by an object of Class physicsbook.
- (iv) What will be the size of an object (in bytes) of class physicsbook.

2. Answer the questions (i) to (iv) based on the following:



i) In case of the class father, what is the base class of father and what is the derived class of father?

(ii) Write the data member(s) that can be accessed from function dispdata().

(iii) Write the member function(s), which can be accessed by an object of mother class.

(iv) Is the member function outputdata() accessible to the objects of father c

3. Answer the questions (i) to (iv) based on the following:

class person	class client : private person	class doctor : public person
<pre>{ char name[20], address[20]; protected: int x; public: void enter_person(); void disp_person(); };</pre>	<pre>{ int resource; public: int get_resource(); void free_resource(); };</pre>	{ char speciality[20]; public: void input(); void disp(); };

(i) What type of inheritance is depicted by the above example?

(ii) Write the member functions, which can be called by the object of class client.

(iii) What is the size in bytes of the object of class doctor and client respectively?

(iv)Write the data members, which can be used by the member functions of the class doctor

4. Answer the questions (i) to (iv) based on the following

```
class Student
{ int Rollno;
char SName[20];
float Marks;
protected:
void Result();
public:
Student();
void Enroll ();
void Display ();
};
class Teacher
{ long TCode;
char TName [20];
protected :
float Salary;
public:
Teacher();
void Enter ();
void Show ();
};
class Course : public Student, private Teacher
```

{ long CCode[10]; 114 char CourseName[50]; char StartDate [8], EndDate[8]; public: Course(); void Commence(); void CDetail(); }; (i) Write the names of member function:

(i) Write the names of member functions, which are accessible from objects of class Course

(ii) Write the names of all data members, which is/are accessible from member function

Commence of class Course

(iii) Write the names of all the members, which are accessible from objects of class teacher.

(iv) Which type of inheritance is illustrated in the above C++ code?

CLASS and OBJECT

1.	The m	nembers of a class, by default, are		
	A. public			
	B.	B. protected		
	C.	private		
	D.	mandatory to specify		
2.	Which	of the following statements are true in c++?		
	Α.	Classes can not have data as public members.		
	В.	Structures can not have functions as members.		
	C.	Class members are private by default.		
	D.	None of these.		
3.	Memb	er functions, when defined within the class specification:		
	A.	are always inline.		
	B.	are not inline.		
	C.	are inline by default, unless they are too big or too complicated.		
	D.	are not inline by default.		
4.	Which	of the following concept of oops allows compiler to insert arguments in a function call if it		
	is not	specified?		
	A.	Call by value		
	B.	Call by reference		
		Default arguments		
F	D.	Call by pointer		
э.	vvnicn	for the following term is used for a function declared inside a class?		
	A	. Member Variable		
	В	. Member function		
	С	2. Class function		
	D	0. Classic function		
6	Which	of the following is an abstract data type?		
	A	int B. Double		
	/			
	C.	string D. Class		
7.	Which	of the following is correct about class and structure?		
	•	alaga san haya mambar functions while structure connat		
	А.	class can have member functions while structure cannot.		
	В.	class data members are public by default while that of structure are private.		
	C.	Pointer to structure or classes cannot be declared.		
	D.	class data members are private by default while that of structure are public by default.		
8.	Which	of the following two entities (reading from Left to Right) can be connected by the dot		
	operat			
	Α.	A class member and a class object.		
	В.	A class object and a class.		
	C.	A class and a member of that class.		
	D.	A class object and a member of that class.		
9	Which	of the following keywords is used to control access to a class member?		
	•			
1	Α.	Derault D. Dreak		

	C.	protected	D. Asm
10.	Which	of the following can access private data	members or member functions of a class?
	А. В.	All global functions in the program.	
	C.	Any member function of that class.	
11.	D. Which	of the following also known as an instar	ass. nce of a class?
	A.	Friend Functions	B. Object
	C	Member Function	d Member \/ariable
12.	Scope	resolution operator is represented by	
	A.	~ B.:: c.: d.:	
13.	Constr	ructor is executed when	
	Α.	an object is created	
	В.	an obiect is used	
	C.	a class is declared	
	D	an object goes out of scope	
14	Use of	protects data from inadve	rtent modifications
	A.	private access specifier	
	B.	class protection operator, @	
	D.	public access specifier	
15.	Which	of the following statements is correct?	
	Α.	Data items in a class must be private.	
	В.	Both data and functions can be either	private or public.
	C.	Member functions of a class must be p	private.
	D.	Constructor of a class cannot be private	te.
16.	Which	of the following is the only technical diff	erence between structures and classes in C++?
	Α.	Member function and data are by defa	ult protected in structures but private in classes.
	В.	Member function and data are by defa	ult private in structures but public in classes.
	C.	Member function and data are by defa	ult public in structures but private in classes.
	D.	Member function and data are by defa	ult public in structures but protected in classes.
17.	Which	of the following is user defined data	type?
	А.	int	
	B.	Private	
	D.	A & B Both	
18.	The O	bject is not declared for which class?	
	A.	Parent B. Base	
		C. Abstract D. Derived	
1			

19.	Data	member is also called?
	Δ	Attribute
	B.	Method
	C.	Class
20.	D. A Cla	Object ss can have how many destructors?
	A.	1 B. 2 C. 3 D. 4
21.	State i) We ii) A m	true of false. cannot make the function inline by defining a function outside the class. nember function can be called by using its name inside another member function of the
	same A) Tru	class, this is known as nesting of member function. ie, True ie, False
	C) Fa D) Fa	lse, False Ise, True Ise, False
22.	and fu	is a way to bind the data and its associated functions together which allows the data
	A) Str	ucture
	B) Cla	
	D) Bo	th A and B
23.	What #inclu	happens when we try to compile the class definition in following code snippet? de <iostream h=""></iostream>
	1	void main()
	١	class Birds {};
	class	Peacock : protected Birds {};
	, А.	It will not compile because class body of Eagle is not defined.
	В.	It will not compile because a class cannot be protectedly inherited from other class.
	C.	It will compile successfully.
	D.	It will not compile because class body of Birds is not defined.
24.	Which	of the following can access private data members or member functions of a class?
	Α.	Any function in the program.
	В.	All global functions in the program.
	C.	Any member function of that class.
	D.	Only public member functions of that class.
25.	Which	of the following type of data member can be shared by all instances of its class?
	А.	Public

	B. Inherited
	C. protected
	D. Private
26	Llow mony on additional and proceed the access and difference of allows?
20.	A. 1
	B. 2
	C. 3 D 4
27.	Which is used to define the member of a class externally?
	B. ::
	C. #
28	D. none of the above What is the output of this program?
20.	#include <iostream.h></iostream.h>
	Classrect
	int x, y;
	public:
	voidval(int, int);
	return(x * y);
	} .
	voidrect::val(int a, int b)
	{
	$\mathbf{x} = \mathbf{a};$
	y – 0, }
	int main ()
	{
	rect.val(3, 4);
	cout<<"rect area: "< <rect.area();< th=""></rect.area();<>
	returno;
	A. rect area:12
	B. rect area: 12
	D. rect area:24
29.	Which of the following is a valid class declaration?
	A. Class A { III. x, }, B. class B { }
	C. public class A { }
	D. object A { int x; };

30.	When struct is used instead of the keyword class means, what will happen in the program?
	A. access is public by default
	B. access is private by default
	C. access is protected by default
	D. none of the mentioned
31.	How to access the members through class object?
	A. scope resolution operator
	B. ternary operator
	C. direct member access operator (.)
	D. none of the mentioned
32.	Which of these following members are not accessed by using direct member access operator(.)?
	A. public B. privato
	B. private
	D. Poth b 2 o
22	D. DOILID & C
<i>ა</i> ა.	tipelude viestream by
	uplic:
	double length:
	double breadth.
	double height:
	}:
	void main()
	$\{$
	Box Box1;
	double volume;
	Box1.height=5;
	Box1.length=6;
	Box1.breadth=7.1;
	volume = Box1.height* Box1.length* Box1.breadth;
	cout<<"Volume of Box1 : "<< volume < <endl;< th=""></endl;<>
	}
	A. 210
	B. 213
	C. 215
<u> </u>	
34.	What is the output of the program?
	#Include <iostream.n></iostream.n>
	alaaaDaat
	ClassReci
	voidset values(int int):
	int area ()
	{
	return(x * v)·
	}
	· };
	voidRect::set_values(int a, int b){
	x = a;
	y = b;
	}
	int main ()
	{
	Rect recta, rectb;

	recta.set_values(5, 6);
	rectb.set_values(7, 6);
	cout<<"recta area: "< <recta.area();< th=""></recta.area();<>
	cout<<"rectb area: "< <rectb.area();< th=""></rectb.area();<>
	returno;
	}
	A rests store 20 resth store 12
	A. Tecta area. 50 fecto area. 42 B. recta area: 20 recto area: 34
	C. recta area: 30 rectb area: 21
	D. none of the mentioned
35.	How many objects can created of a class?
	A. 1
	B. 2
	C. 3 D. se meny se nessible
36	D. as many as possible Dick out the other definition of chiects
50.	A member of the class
	B. associate of the class
	C. attribute of the class
	D. instance of the class
37.	What is the output of this program?
	#include <iostream.h></iostream.h>
	class sample
	t private:
	intvar.
	public:
	void input()
	{
	cout< <var;< th=""></var;<>
	}
	cout<<"Variable entered is ":
	cout< <var<<"\n";< th=""></var<<"\n";<>
	}
	};
	void main()
	sample object.
	object.var=5:
	object.input();
	object.output();
	}
	A. Variable entered is 5
	B. runtime error
	C. private member access by object
	D. none of the mentioned
38.	Which special character is used to mark the end of class?
	A.;
	B. :
	C. #
	D. \$

39.	What is the output of this program?
	#include <lostream.n></lostream.n>
	class number
	{
	inti;
	public: intacti():
	voidputi(int i):
	};
	int number::geti()
	{
	returni;
	} void number::nuti(int i)
	{
	i= j;
	}
	void main()
	{
	s.puti(10):
	cout< <s.geti();< th=""></s.geti();<>
	}
	A. 10
	B. 11
	D 22
40.	Which is true for this keyword
	,
	A. this.member
	B. this member
	D *this member

CONSTRUCTORS & DESTRUCTORS

Г

1.	Which of the following is not a type of constructor?
	A. Copy constructor
	B. Friend constructor
	C. Default constructor
	D. Parameterized constructor
2.	Which of the following statement is correct?
	A. A constructor is called at the time of declaration of an object.
	B. A constructor is called at the time of use of an object.
	C. A constructor is called at the time of declaration of a class.
	D. A constructor is called at the time of use of a class.
3.	Which of the following is correct about function overloading?
	A. The types of arguments are different.
	B. The order of argument is different.
	C. The number of argument is same.
L	D. Both A and B.
4.	Given a class named Book, which of the following is not a valid constructor?
	B. Book (Book b) { }
	C. Book (Book &b) { }
	D. Book (char* author, char* title) { }
5.	How many constructors can a class have?
	A. 0
	B. 1
	C. 2
	D. any number
6.	Which of the following is not the characteristic of constructor.
	A. They should be declared in the public section.
	B. They do not have return type.
	C. They can not be inherited.
	D. They can't be of same name as that of a class.
7.	A copy constructor takes
	A. no argument
	C. two arguments
	D. arbitrary no. of arguments
8.	A constructor that accepts parameters is called the default constructor.
	A. one B. two
9.	vvnat nappens when a class with parameterized constructors and having no default

	constr	uctor is used in a program and we create an object with no-arguments?	
	Α.	Compile-time error.	
	В.	Preprocessing error.	
	C.	Runtime error.	
	D.	Runtime exception.	
10.	Destru	uctor has the same name as the constructor and it is preceded by	
	Α.	! B. ?	
	C.	~ D. &	
11.	Const	ructors and destructors are called implicitly when the objects of the class is	
	Α.	Created and releases memory	
	В.	inherit parent class	
	C.	are constructed	
	D.	are destroyed	
12.	Which	Which constructor function is designed to copy objects of the same class type?	
	Α.	Create constructor	
	В.	Object constructor	
	C.	Dynamic constructor	
	D.	Copy constructor	
13.	Which	of the following statement is correct?	
	Α.	Constructor has the same name as that of the class.	
	В.	Destructor has the same name as that of the class with a tilde symbol at the beginning.	
	C.	Both A and B.	
	D.	Destructor has the same name as the first member function of the class.	
14.	Which	/hich of the following statement is incorrect?	
	Α.	Constructor is a member function of the class.	
	В.	The compiler always provides a zero argument constructor.	
	C.	It is necessary that a constructor in a class should always be public.	
	D.	Both B and C.	

15.	When are the Global objects destroyed?		
	Α.	When the control comes out of the block in which they are being used.	
	В.	When the program terminates.	
	C.	When the control comes out of the function in which they are being used.	
	D.	As soon as local objects die.	
16.	Сору	constructor must receive its arguments by	
	Α.	either pass-by-value or pass-by-reference	
	В.	only pass-by-value	
	C.	only pass-by-reference	
	D.	only pass by address	
17.	A	function with the same name as the class, but preceded with a tilde character (~)	
	is	called of that class.	
		A. constructor B. destructor	
		C. function D. object	
18.	Which	of the following gets called when an object goes out of scope?	
	Α.	constructor	
	В.	destructor	
	C.	main	
	D.	virtual function	
19.	Which	of the following statement is correct?	
	Α.	Destructor destroys only integer data members of the object.	
	В.	Destructor destroys only float data members of the object.	
	C.	Destructor destroys only pointer data members of the object.	
	D.	Destructor destroys the complete object.	
20.		is used to make a copy of one object to another object of the same class	
	type.		
	Α.	constructor	
	В.	copy constructor	
	C.	destructor	
	D.	default constructor	
21.	Constructors to create objects in different ways.		

	Α.	cannot overloaded	
	В.	can be overloaded	
	C.	can be called	
	D.	can be nested	
22.	Which	of the following statement is correct?	
	Α.	A destructor has the same name as the class in which it is present.	
	В.	A destructor has a different name than the class in which it is present.	
	C.	A destructor always returns an integer.	
	D.	A destructor can be overloaded.	
23.	Which	of the following are NOT provided by the compiler by default?	
	Α.	Zero-argument Constructor	
	В.	Destructor	
	C.	Copy Constructor	
	D.	A & B	
24.	It is a	error to pass arguments to a destructor.	
	Α.	logical B. virtual	
	C.	syntax D. linker	
25.	If the p	he programmer does not explicitly provide a destructor, then which of the following	
	create	s an empty destructor?	
	Α.	Preprocessor	
	В.	Compiler	
	C.	Linker	
	D.	main() function	
26.	A cons	structor having parameters with default values is known as	
	Α.	default constructor	
	В.	copy constructor	
	C	Constructor with default values	
	0.		
	D.	None of these	
27.	How many default constructors per class are possible?		
1	110111	nany default constructors per class are possible?	
	A.	nany default constructors per class are possible? Only one	

	C. Three		
	D. Unlimited		
28.	Which of the following statement is correct about destructors?		
	A. A destructor has void return type.		
	B. A destructor has integer return type.		
	C. A destructor has no return type.		
	D. A destructors return type is always same as that of main().		
29.	Which of the following statement is correct?		
	A. A constructor has the same name as the class in which it is present.		
	B. A constructor has a different name than the class in which it is present.		
	C. A constructor always returns an integer.		
	A constructor cannot be overloaded. D.		
30.	Which of the following implicitly creates a default constructor when the programmer		
	does not explicitly define at least one constructor for a class?		
	A. Preprocessor B. Linker		
	C. Loader D. Compiler		
31.	A destructor takes arguments.		
	A. one B. two		
	C. three D. no		
32.	Destructor calls are made in which order of the corresponding constructor calls?		
	A. Reverse order		
	B. Forward order		
	C. Depends on how the object is constructed		
	D. Depends on how many objects are constructed		
33.	Which of the following never requires any arguments?		
	A. Member function		
	B. Friend function		

	C.	Default constructor
	D.	const function
34.	A clas	s's is called when an object is destroyed.
	Α.	constructor
	В.	destructor
	C.	assignment function
	D.	copy constructor
35.	Destru	ictors automatically when the program terminates with a call to
	functio	on exit or function abort.
	Α.	are called
	В.	are inherited
	C.	are not called
	D.	are created
36.	Which	of the following statement is correct?
	Α.	A constructor of a derived class can access any public and protected member of the base class.
	В.	Constructor cannot be inherited but the derived class can call them.
	C.	A constructor of a derived class cannot access any public and protected member of the base class.
	D.	Both A and B
37.	Which	of the following statements are correct?
	Α.	Constructor is always called explicitly.
	В.	Constructor is called either implicitly or explicitly, whereas destructor is always called implicitly.
	C.	Destructor is always called explicitly.
	D.	Constructor and destructor functions are not called at all as they are always inline.
38.	How m	nany times a constructor is called in the life-time of an object?
	Α.	Only once
	В.	Twice

	C.	Thrice
	D.	Depends on the way of creation of object
39.	Which	of the following statement is correct about constructors?
	Α.	A constructor has a return type.
	В.	A constructor cannot contain a function call.
	C.	A constructor has no return type.
	D.	A constructor has a void return type.
40.	Which	of the following statement is correct whenever an object goes out of scope?
	Α.	The default constructor of the object is called.
	В.	The parameterized destructor is called.
	C.	The default destructor of the object is called.
	D.	None of the above.
41.	Answe #includ class I {	er the questions (i) and (ii) after going through the following program de <iostream.h> de<string.h> Bazar char Type[20]; char Product[20]; int Qty; float Price; Bazar() //Function 1 { strcpy (Type,"Electronic"); strcpy (Product,"Calculator"); Qty = 10; Price=225; }</string.h></iostream.h>
	public:	void Disp() //Function 2
		
	cout<<	< rype<< - < < Product<< : << Qty<< @ << Price<< endl; }
	}; void m {	nain()
		B.Disp(); //Statement 1
	}	
	(i)	Will Statement 1 initialize all the data members for object B with the values given in the Function 1? Justify your answer suggesting the correction(s) to be made in the above code.
		A. Yes B. No

	(ii)	What shall be the possible output when the program gets executed? (Assuming, if required – the suggested correction(s) are made in the program).
	A. El B. El C. El D. El	ectronic-Calculator:10@225 ectronic Calculator ::10@250 ectronic Calculator :10@250 ectronic-Calculator::10@225
42.	Answer t	he questions (i) and (ii) after going through the following class:
	class Sen ر	ninar
	int Time	э;
	Semina	ar() //Function 1
	Time	e=30;cout<<"Seminar starts now"< <end1;< th=""></end1;<>
	} void Lec	ture() //Function 2
	{ cout<<	"Lectures in the seminar on"< <end1;< th=""></end1;<>
	} Seminar((int Duration)//Function 3
	{ Time=[}	Duration;cout<<"Seminar starts now"< <end1;< th=""></end1;<>
	~Semir	nar() //Function 4
	{ cout<	<="Vote of thanks"< <end1;< th=""></end1;<>
	} };	
	(i)	In Object Oriented Programming, what is Function 4 referred as ?
		A. Copy Constructor
		B. Constructor
		C. Destructor
		D. Default Constructor
	(ii)	In Object Oriented Programming, when does Function 4 get invoked/called?
		A. When user calls it.
		B. It is invoked as soon as the scope of the object gets over.
		C. It can'be invoked.
		D. A & C
	(iii)	In Object Oriented Programming, which concept is illustrated by

	Function 1 and Function 3 together? Write an example illustrating the calls for these functions.
	 A. Inheritance B. Encapsulation C. Constructor Overloading (Polymorphism) D. Data hiding
	 (iv) What is the correct code to call Function 1? A. Seminar S1 B. Seminar S1; C. S1; D. A & C
	 (v) What is the correct code to call Function 3? A. Seminar S2(90); B. Seminar S2; C. S2; D. B & C
43.	In which case is it mandatory to provide a destructor in a class? A. Almost in every class
	 B. Class for which two or more than two objects will be created C. Class for which copy constructor is defined
	D. Class whose objects will be created dynamically
44	Constructor Overloading implements feature of OOPs A. Polymorphism B. Inheritance C. Abstraction D. None
45	What happens when following statements are executes assuming Book is a class Book a,b; a=b;
	 A. Copy Constructor is called. B. Default Constructor C. Assignment Operation D. None

	A. Polymorphism
	B. Structure
	C. Inheritance
	D. Cascading
2.	Mechanism of deriving a class from another derived class is known as
	A. Polymorphism
	B. Single Inheritance
	C. Multilevel Inheritance
	D. Message Passing
3.	If a class C is derived from class B, which is derived from class A, all through public inheritance, then a class C member function can access
	A. Protected and public data only in C and B
	B. Protected and public data only in C
	C. Private data in A and B
	D. Protected data in A and B
4.	The base class access specification determines how members in the base class may be accessed by derived classes.
	A. Private
	B. Public
	C. Protected
	D. All of the above
5.	A base class may also be called a
	A. Child class
	B. Subclass
	C. Derived class
	D. Parent class
6.	Which of the statements are true ?
	I. Function overloading is done at compile time.
	II. Protected members are accessible to the member of derived class.
	III. A derived class innerits constructors and destructors.
	V. Nested class is a derived class.
	$\mathbf{C}_{\mathbf{c}}$ III IV V
	D. I, II, IV
7	
1.	
	A. The base classes must have only default constructors
	B. Cannot have virtual functions
	C. Cannot have virtual classes
8.	When a sub class is inherited from only one super class .It is known as
	A. Single inheritance
	B. Multiple inheritance

	C. Hierarchical inheritanceD. Multilevel inheritance
9.	members of a base class are never accessible to a derived class.
	A. Private
	B. Public
	C. Protected
	D. All of the above
10.	What part of object-oriented technology defines superclass and subclass relationships?
	A. Inheritance
	B. Scalability
	C. Encapsulation
	D. Polymorphism
11	
11.	In a student grading system, objects from different classes communicate with each other. These
	communications are known as
	A. Inheritance
	B. Scalability
	C. Encapsulation
	D. Polymorphism
12.	What common technique attempts to save time and energy by reducing redundant work in
	object-oriented programming?
	A. Reduce lines of programming
	B. Reuse of code
	C. Reduce size of systems being developed
	D. Merging different systems together
13.	Which of the following term is used for a function defined inside a class?
	A. Member Variable
	B. Member function
	C. Class function
	D. Classic function
14	Which of the following is the valid class declaration beader for the derived class b with base
17.	class a and derived class c with base class b ?
	A. class b : public a { }; class c : public b{ };
	B. Class d : class b1 , class b2 C. class a : public b $\{$ $\}$: class b : public c $\{$ $\}$:
	D. class d : b1 , b2
	E.
15.	Which of the statements is true in a protected derivation of a derived class from a base class?
	A. Private members of the base class become protected members of the derived class
	 Frotected members of the base class become protected members of the derived class C Public members of the base class become protected members of the derived class
	D. Protected derivation does not affect private and protected members of the derived blass
	class.
16.	Which of the following is the valid class declaration header for the derived class d with base

	classes b1 and b2 ?
	A. class d : public b1, public b2
	B. class d : class b1 , class b2
	C. class d : public b1, b2
	D. class d : b1 , b2
17.	The major goal of inheritance in c++ is:
	A. To facilitate the conversion of data types.
	B. To help modular programming.
	C. To extend the capabilities of a class.
	D. To hide the details of base class.
18.	Consider the following class definitions:
	class a
	{
	};
	class b: protected a
	};
	What happens when we try to compile this class?
	A. Will not compile because class body of a is not defined.
	B. Will not compile because class body of b is not defined.
	C. Will not compile because class a is not public inherited.
10	D. Will complie successfully.
19.	In access control in a protected derivation, visibility modes will change as follows:
	A. private, public and protected become protected
	C public and protected become protected
	D only private becomes protected
20.	Which allows you to create a derived class that inherits properties from more than one base
	class?
	A. Multilevel inheritance
	B. Multiple inheritance
	C. Hybrid Inheritance
	D. Hierarchical Inheritance
21.	Which feature in OOP allows reusing code?
	A. Polymorphism
	B. Inheritance
	C. Encapsulation
	D. Data hiding
22.	To hide a data member from the program, you must declare the data member in the
	A. concealed
	B. confidential
	C. nidden
	D. private
23.	When you derive a class privately, a protected base class member becomes
	A. private
	B. public
	C. not inherited
	D. protected
24.	Irrespective of type of derivationmembers of a base class are never accessible in
	derived class.

	A. (b), (d) and (e)
	B. private
	C. none of these
	D. protected
	E. public
25.	A class inherited from an existing class is known as
	A. derived class
	B. inheritee
	D A and C
26.	When two or more classes serve as base class for a derived class, the situation is known as
	A. multiple inheritance
	B. polymorphism
	D None of these
27.	
	Which type of inheritance is depicted in the given example?
	A Multilevel Inheritance
	B. Multiple Inheritance
	C. Single Level Inheritance
	D. None of these
28.	When derived class and base classes both contain constructors, the base constructor is
	D. Faise
	C. All of the above
	D. None of the above
29.	How Many bytes will be required by an object of the class SHOP?
	class CUSTOMER
	{ intCust_no:
	char Cust_Name[20];
	};
	class SALESMAN
	{ intSalesman_no:
	char Salesman Name[20]:
	protected:
	float Salary;
	}; alaca SHOD : privata CLISTOMED, public SALESMAN
	Lass SHUP . private COSTONIER, PUDIIC SALESIVIAN {
	char Voucher_No[10];
	char Sales_Date[8];
	};
	A. 50 DYTES B. 18 bytes
	C. 88 bytes
	D. 66 bytes

30.	Which type of inheritance is shown in the following example? class olympics					
	{ int no of events; char country name[25];					
	}; class outdoorgame : public olympics					
char eventname[20]; inteventcode;						
}; class hockey : public outdoorgame						
	{					
	char venue[25];					
	}; A. Multilevel Inheritance					
	B. Multiple Inheritance					
	C. Single Level Inheritance D. None of these					
31.	consider the following class declaration and answer the question below :					
	class university {					
	intnoc; protected;					
	char uname[25];					
	public:					
	university();					
	char state[25];					
	};					
	class college:public university{					
	int nod;					
	char cname[25];					
	public:					
	college();					
	};					
	class department:public college{					
	char dname[25];					
	intnof;					
	public:					
	department();					
	};					
	Which class's constructor will be called first at the time of declaration of an object of					
	class department?					
	A. university					
	B. department					
	C. college					

	D. No class constructor will be called				
32.	consider the following class declaration and answer the guestion below :				
	class university {				
	int noc;				
	protected; char uname[25]; public:				
	university(); char state[25];				
	};				
	class college:public university{				
	int nod;				
	char cname[25];				
	public:				
	college();				
	};				
	class department:public college{ char dname[25];				
	intnof;				
	public:				
	department();				
	};				
	(i) How many bytes does an object belonging to class college, university and				
	department require respectively?				
	A. 79, 52,106				
	B. 52,106,79				
	C. 106,79,52				
	D. 79,54,106				
	(ii) Which data member will be accessible from the object of class department?				
	A. noc				
	B. dname				
	C. nof				
	D. state				
33.	What is the output of this program? #include <iostream.h> class A</iostream.h>				
	public:				
	A(int n)				

```
{
      cout<< n;
      }
      };
      class B:public A
      {
      public:
           B(int n, double d)
      : A(n)
      {
      cout<< d;
      }
      };
      class C:public B
      {
      public:
           C(int n, double d, charch)
      : B(n, d)
      {
      cout<<ch;
      }
     };
      int main()
      {
           C c(5, 4.3, 'R');
      return0;
      }
         A. 54.3R
         B. R4.35
         C. 4.3R5
         D. None of the mentioned
34.
     What is the output of this program?
      #include <iostream.h>
      classBaseClass
      {
      protected:
      inti:
      public:
      BaseClass(int x)
      {
      i= x;
      }
           ~BaseClass()
      {
      }
      };
      classDerivedClass:publicBaseClass
      {
      int j;
      public:
      DerivedClass(int x, int y):BaseClass(y)
      {
             j = x;
```

	~DerivedClass()
	{
	}
	void show()
	cout< <i<<" "<<="" <<endl;<="" j="" th=""></i<<">
	<pre>};</pre>
	int main()
	$\begin{cases} DorivedCleaseb(2, 4); \end{cases}$
	benveuclassob(3, 4),
	ob.snow(),
	A 34
	B. 43
	C. 4
	D. 3
35	What is the output of this program?
	#include <iostream.h></iostream.h>
	class Base
	public:
	Base(int $n=0$)
	Base(IIII II=0)
	· · · · (· ·) {
	cout<<"Base"< <endl< th=""></endl<>
	}
	};
	class Derived:public Base
	{
	public:
	double d;
	Derived(double de =0.0)
	: d(de)
	{
	\
	int main()
	{
	cout<<"Instantiating Base"< <endl;< th=""></endl;<>
	Base cBase;
	cout<<"Instantiating Derived"< <endl;< th=""></endl;<>
	Derived cDerived;
	return0;
	}
	A. Instantiating Base
	Base
	Instantiating Derived
	Base

	Derived	
	B. Instantiating Base	
	Instantiating Derived	
	Base	
	Derived	
	C. Instantiating Base	
	Instantiating Derived	
	Base	
	D. None of the mentioned	
36		
50.		
	What is the output of this program?	
	#include <iostream.h></iostream.h>	
	class Parent	
	t public:	
	Parent (void)	
	{ cout<<"Parent() \n ":	
	}	
	Parent (Inti)	
	cout<<"Parent("< <i<<")\n";</i<<")	
	}; Parent (void)	
	{	
	;;	
	}; elece Child1 : public Decent ();	
	class Child2 :public Parent	
	Child2 (void)	
	{ couters"Child2())n ":	
	}	
	Child2 (inti): Parent (i)	
	cout<<"Child2("< <i<")\n";</i<")	
	} ~Child2 (void)	
	{	
	cout<<"~Child2() \n ";	
	, };	
	int main (void)	

{	Child1 a; Child2 b; Child2 c(42); urn0:		
}	Doront()		
А.	Pareni()		
	Parent()		
	Child2()		
	Parent(42)		
	Child2(42)		
	~Child2()		
	~Parent()		
	~Child2()		
	~Parent()		
	~Parent()		
В.	Error	C. runtime error	D. None of the mentioned