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SR.NO	Project NAME	Technology	
1	Online E-Learning Platform Hub	React+Springboot+MySql	
2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySql	
3	Tour and Travel management System	React+Springboot+MySql	
4	Election commition of India (online Voting System)	React+Springboot+MySql	
5	HomeRental Booking System	React+Springboot+MySql	
6	Event Management System	React+Springboot+MySql	
7	Hotel Management System	React+Springboot+MySql	
8	Agriculture web Project	React+Springboot+MySql	
9	AirLine Reservation System / Flight booking System	React+Springboot+MySql	
10	E-commerce web Project	React+Springboot+MySql	
11	Hospital Management System	React+Springboot+MySql	
12	E-RTO Driving licence portal	React+Springboot+MySql	
13	Transpotation Services portal	React+Springboot+MySql	
14	Courier Services Portal / Courier Management System	React+Springboot+MySql	
15	Online Food Delivery Portal	React+Springboot+MySql	
16	Muncipal Corporation Management	React+Springboot+MySql	
17	Gym Management System	React+Springboot+MySql	
18	Bike/Car ental System Portal	React+Springboot+MySql	
19	CharityDonation web project	React+Springboot+MySql	
20	Movie Booking System	React+Springboot+MySql	

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21	Job Portal web project	React+Springboot+MySql
22	2 LIC Insurance Portal React+Springboot+MySql	
23	Employee Management System	React+Springboot+MySql
24	Payroll Management System	React+Springboot+MySql
25	RealEstate Property Project	React+Springboot+MySql
26	Marriage Hall Booking Project	React+Springboot+MySql
27	Online Student Management portal React+Springboot+MySql	
28	Resturant management System	React+Springboot+MySql
29	Solar Management Project	React+Springboot+MySql
30	OneStepService LinkLabourContractor	React+Springboot+MySql
31	Vehical Service Center Portal	React+Springboot+MySql
32	E-wallet Banking Project	React+Springboot+MySql
33	Blogg Application Project	React+Springboot+MySql
34	Car Parking booking Project	React+Springboot+MySql
35	OLA Cab Booking Portal	React+NextJs+Springboot+MySql
36	Society management Portal	React+Springboot+MySql
37	E-College Portal	React+Springboot+MySql
38	FoodWaste Management Donate System	React+Springboot+MySql
39	Sports Ground Booking	React+Springboot+MySql
40	BloodBank mangement System	React+Springboot+MySql

41	Bus Tickit Booking Project	React+Springboot+MySql
42	Fruite Delivery Project	React+Springboot+MySql
43	Woodworks Bed Shop	React+Springboot+MySql
44	Online Dairy Product sell Project	React+Springboot+MySql
45	Online E-Pharma medicine sell Project	React+Springboot+MySql
46	FarmerMarketplace Web Project	React+Springboot+MySql
47	Online Cloth Store Project	React+Springboot+MySql
48	Train Ticket Booking Project	React+Springboot+MySql
49	Quizz Application Project	JSP+Springboot+MySql
50	Hotel Room Booking Project	React+Springboot+MySql
51	Online Crime Reporting Portal Project	React+Springboot+MySql
52	Online Child Adoption Portal Project	React+Springboot+MySql
53	online Pizza Delivery System Project	React+Springboot+MySql
54	Online Social Complaint Portal Project	React+Springboot+MySql
55	Electric Vehical management system Project	React+Springboot+MySql
56	Online mess / Tiffin management System Project	React+Springboot+MySql
57		React+Springboot+MySql
58		React+Springboot+MySql
59		React+Springboot+MySql
		Reactispinigoodtiviysqi
60		React+Springboot+MySql

## **Spring Boot + React JS + MySQL Project List**

Sr.No	Project Name	YouTube Link
1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9cIHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=IIOS-QG3TpAFP5k7
5	<b>Ecommerce Shopping project</b>	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FlzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynlouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyI4I?si=qX0oQt-GT-LR_5jF
10	Tour and Travel System Project version 2.0	https://youtu.be/ 4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W GRw?si=Y jv1xV BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSlSm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWAOzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802I7N

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	1
Question:	What is the outputof the following program
	#include <iostream.h></iostream.h>
	int main()
	{
	unsigned int i;
	for(i = 1; i<= 100; i++)
	if( i & 0x00000001)
	cout<<("%d ", i);
	return 0;
	}
Answer Choices	
Choice 1:	All the numbers from 1 to 100
Choice 2:	Compilation error
Choice 3:	All the even numbers from 1 to 100
Choice 4:	All the odd numbers from 1 to 100
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	(Mention name of the sor author, ISBN / Website URL)
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	2
Question:	<pre>What is the output of the following program  #include<iostream.h> #include <windows.h> int main(void) {     system("c:\\windows\\notepad.exe");     return 0; }</windows.h></iostream.h></pre>
Answer Choices	
Choice 1:	There is no such header as <windows.h> in C++</windows.h>
Choice 2:	Displays the string "c:\\windows\\notepad.exe"
Choice 3:	Opens the notepad in windows
Choice 4:	"system" is not a keyword and couldnot be used
Correct Answer:	Choice 3

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Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	3
Question:	What is the output of the following program
Question.	#include <iostream.h></iostream.h>
	class base
	class base
	public:
	virtual void fun()
	\(\frac{\partial}{\partial}\)
	cout<<"In Base::fun()";
	Cout < In basetun() ,
	void fun1()
	\(\sqrt{\text{old fullf()}}\)
	fun();
	1un(),
	<b>}</b> ;
	class derived:public base
	{
	public:
	void fun()
	(Statum)
	cout<<"In derived::fun()";
	}
	};
	Tr. Control of the Co
	int main()
	( )
	derived d;
	d.fun1();
	return 0;
*	}
	J
Answer Choices	
Choice 1:	Error: as there is no function fun1() in the derived class
Choice 2:	In derived::fun()
Choice 3:	In base::fun()
Choice 4:	Error: Cannot call the method of the base class.
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)

	Ü
Reference:	
(If question	
taken from book/	
website/etc.)	

Tania / Madula:	Algorithms and Data Churchman wains C. I.
Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	4
Question:	What is the output of the following program
	#include <iostream.h> int main() {     int a=10, b=20;     b = a+ b-(a=b);     cout&lt;<a<<b; 0;="" return="" td="" }<=""></a<<b;></iostream.h>
Answer Choices	
Choice 1:	Error: Invalid expression
Choice 2:	10 20
Choice 3:	20 10
Choice 4:	Error: Ivalue required
Correct Answer:	Choice 3
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	5
Question:	What is the output of the following program
	#include <iostream.h></iostream.h>
	int main()
	{
	static int i=5;
	while(i=5)
	{
	cout< <i;< td=""></i;<>
	i;
	}
	return 0;
	}

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Answer Choices	
Choice 1:	5 4 3 2 1
Choice 2:	5
Choice 3:	Infinite loop
Choice 4:	Compilation error
Correct Answer:	Choice 3
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	6
Question:	What is the output of the following program
	<pre>#include<iostream.h>  int main() {     float i=10.35f;     if(i==10.35)         cout&lt;&lt;"working";     else</iostream.h></pre>
	cout<<"not working";
	return 0;
Answer Choices	
Choice 1:	working
Choice 2:	compilation error: cannot compare float to double
Choice 3:	complies successfully but no output is displayed
Choice 4:	not working
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

•	Topic / Module:	Algorithms and Data Structures using C++
	Q. No.:	7

```
Question Bank – OOPS using C++ and Data Structures

What is the output of the following program
Question:
                        #include<iostream.h>
                        const int MAX = 15;
                       int main()
                           enum e{a, b, MAX};
                           cout<<a<<b<<MAX;
                           return 0;
                        }
Answer Choices
Choice 1:
                    0 1 2
                    13 14 15
Choice 2:
Choice 3:
                    1 2 15
                    0 1 15
Choice 4:
                    Choice 1
Correct Answer:
Difficulty Level:
                    Easy / Intermediate / Difficult (To be marked by review team)
Reference:
(If question
taken from book/
website/etc.)
```

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	8
Question:	What is the output of the following
	<pre>class Base {     int cNo; char cName[20];     public:        void show()        { cout&lt;<endl<<"base b1.show();<="" b1;="" base="" class="" class";="" class";}="" cout<<endl<<"derived="" d1;="" derived="" derived:="" dno;="" float="" main(){="" pre="" public="" public:="" show()="" void="" {="" }="" };=""></endl<<"base></pre>

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```
d1.show();
                          Base& b2 = d1;
                          b2.show();
                          d1.show();
Answer Choices
Choice 1:
                    Error: Can not convert Base to Derived
Choice 2:
                    Base Class
                    Derived Class
                    Base Class
                    Derived Class
Choice 3:
                    Base Class
                    Derived Class
                    Derived Class
                    Base Class
Choice 4:
                    Base Class
                    Derived Class
                    Derived Class
                    Derived Class
Correct Answer:
                    Choice 2
Difficulty Level:
                    Easy / Intermediate /
                                           Difficult (To be marked by review team)
Reference:
(If question
taken from book/
website/etc.)
```

T : / NA	
Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	9
Question:	1. What happens
	class X {     int j;     public:
	$X()$ { this->j = 0; }
	X(int n)
	{     this->j = n; }
	X(const X& rhs)
	{

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```
int main()
                             X \times 1, \times 2(5);
                             X \times 3(x2);
                             x1 = x3;
                             return 0;
Answer Choices
                      It will compile. Upon execution, the default constructor for 'X' will be called, then
Choice 1:
                      the overloaded constructor, and then the copy constructor. The default
                      assignment operator will be used.
Choice 2:
                      It will fail during compilation because the copy constructor is attempting
                      to use a const reference to modify a member variable.
Choice 3:
                      It will compile. Upon execution, the default construct for 'X' will be
                      called, then the overloaded constructor, and then a run-time error will
                      occur when the assignment of x1 = x3 is attempted.
                      It will compile. Upon execution, the default constructor for 'X' will be
Choice 4:
                      called once, and then the copy constructor will be called twice, with the
                      last call being used to assign x1 = x3.
Correct Answer:
                      Choice 1
                      Easy / Intermediate / Difficult (To be marked by review team)
Difficulty Level:
Reference:
(If question
taken from book/
website/etc.)
```

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	10
Question:	What would be the output of the following  #include <iostream.h>  class Base {  public:</iostream.h>
	Base() {     cout<<"Constructor: Base"< <endl; base"<<endl;="" cout<<"destructor:="" td="" virtual="" {="" }="" };<="" ~base()=""></endl;>
	class Derived: public Base

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```
public:
                          Derived()
                                   cout<<"Constructor: Derived"<<endl;</pre>
                          ~Derived()
                                   cout<<"Destructor : Derived"<<endl:</pre>
                    };
                    int main()
                         Base *Var = new Derived();
                         delete Var;
                       return 0;
Answer Choices
Choice 1:
                       Constructor: Base
                        Constructor: Base
                       Destructor : Base
                       Destroutor: Derived
Choice 2:
                       Constructor: Base
                       Constructor: Derived
                       Destroutor : Derived
Choice 3:
                       Constructor: Base
                        Constructor: Derived
                       Destructor: Derived
                       Destroutor: Base
Choice 4:
                    None of the above
                    Choice 3
Correct Answer:
                    Easy / Intermediate / Difficult (To be marked by review team)
Difficulty Level:
Reference:
(If question
taken from book/
website/etc.)
```

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	11
Question:	Consider the following,
	#include <iostream.h></iostream.h>
	#include <string.h></string.h>
	#include <stdlib.h></stdlib.h>
	void ReadInput (int DataType, void * address)

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```
char buffer[30];
                       cin.getline(buffer, sizeof(buffer));
                       switch (DataType)
                       case 1:
                         *(int*)address = atoi(buffer);
                        break;
                       case 2:
                        *(float*)address = atof(buffer);
                        break;
                       case 3:
                        strcpy((char*)address, buffer);
                        break;
                     int main ()
                       float x;
                       cout << "\nEnter number ";</pre>
                       ReadInput (2, &x);
                       cout << "\nsquare = " << x*x;
                     return 0;
                     What would be output if input provided is 12.5
Answer Choices
Choice 1:
                     156.25
Choice 2:
                     Compilation error: Cannot convert from float to int
Choice 3:
                     144
Choice 4:
                     None of the above
Correct Answer:
                     Choice 1
Difficulty Level:
                     Easy / Intermediate / Difficult (To be marked by review team)
Reference:
(If question
taken from book/
website/etc.)
```

Topic / Module:	Algorithms and Data Structures using C++
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	11 Dank OO1 5 asing C and Data Structures
Q. No.:	12
Question:	What would be the output of the following
	#include <iostream.h></iostream.h>
	int main()
	{
	int a =11;
	int &b=a;
	b=a++;
	a=b++;
	cout< <a<<','<<b;< td=""></a<<','<<b;<>
	return 0;
	}
Answer Choices	
Choice 1:	11, 12
Choice 2:	13, 13
Choice 3:	13, 12
Choice 4:	12, 12
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

T ' / NA	AL 20 1 2 1 CO 1
Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	13
Question:	Output of the following,
	#include <iostream.h></iostream.h>
	#include <string.h></string.h>
	class A
	{
	int code;
	char name[20];
	public :
	Ā()
	{
	code=0;
	strcpy(name,'\0');
	}
	A(int c, char* nm)
	{
	code = c;
	strcpy(name,nm);

```
A(A& obj)
                                       code = obj.code;
                                       strcpy(name, obj.name);
                           void show();
                    void A::show()
                           cout<<endl<<"code= "<< code<<endl<< "Name = "<<name;
                    int main()
                           A obj1(20,"AAA");
                           A obj2(obj1);
                           obj1.show();
                           obj2.show();
                    return 0;
Answer Choices
                    code = 20 name = AAA for first and garbage value for second
Choice 1:
Choice 2:
                    code = 20 \text{ name} = AAA
Choice 3:
                    will not compile
                    Error: cannot assign one object to another
Choice 4:
Correct Answer:
                    Choice 2
                    Easy / Intermediate / Difficult (To be marked by review team)
Difficulty Level:
Reference:
(If question
taken from book/
website/etc.)
```

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	14
Question:	what is the result of the following program:
	#include <iostream.h></iostream.h>
	class myclass
	{
	private :
	int a,b;
	public:
	void set_ab(int i, int j)
	{

```
a= i:
                                        b=j;
                                 friend int sum(myclass);
                    int sum(myclass obj)
                           return obj.a+ obj.b;
                     void main()
                           myclass c1,c2;
                           c1.set_ab(10,20);
                           c2.set_ab(40,40);
                           cout<<endl<<sum(c1);</pre>
                           cout<<endl<<sum(c2);
Answer Choices
Choice 1:
                    Error: can't access the member function without a reference to the class
Choice 2:
                    Error: a non-member function cannot access the data member of the
                    class
                    30 80
Choice 3:
                    Garbage Value
Choice 4:
Correct Answer:
                    Choice 3
                    Easy / Intermediate / Difficult (To be marked by review team)
Difficulty Level:
Reference:
(If question
taken from book/
website/etc.)
```

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	15
Question:	Consider,
	#include <iostream.h></iostream.h>
	struct SomeClass
	{
	private:
	int x;
	public:
	SomeClass (int $xx$ ): $x(xx)$ {};
	<b>}</b> ;
	int main()
	{

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	it bain. Colo asing C and bata structures
	SomeClass $x(10)$ ;
	SomeClass y(x);
	return 0;
	}
	What, if anything, is wrong with the initialization of y in the sample code
	above?
Answer Choices	
Choice 1:	It is illegal because SomeClass has no copy constructor.
Choice 2:	It is illegal because SomeClass has no public copy constructor
Choice 3:	It is illegal because SomeClass has no default constructor
Choice 4:	There is nothing wrong with the initialization of y. It is perfectly legal
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	16
Question:	class professor {};
	class teacher: public virtual professor {};
	class researcher : public virtual professor {};
	class myprofessor : public teacher, public researcher {};
	Referring to the sample code above, if an object of class
	"myprofessor" were created, how many instances of professor
	will it contain?
Answer Choices	
Choice 1:	0
Choice 2:	1
Choice 3:	2
Choice 4:	3
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	17

	Question bank Colo asing C and bath structures	
Question:	string somestring;	
	Which of the following choices will convert a standard C++ string object	
	"somestring" to a C string?	
Answer Choices		
Choice 1:	Copy.somestring ();	
Choice 2:	somestring.c_str ()	
Choice 3:	&somestring [1]	
Choice 4:	std::cstring (somestring)	
Correct Answer:	Choice 2	
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)	
Reference:		
(If question		
taken from book/		
website/etc.)		

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	18
Question:	class basex
	{
	int x;
	public:
	void setx(int y) {x=y;}
	<b>}</b> ;
	class derived : basex {};
	What is the access level for the member function "setx" in the class
	"derived" above?
Answer Choices	
Choice 1:	C
Choice 2:	Local
Choice 3:	Public
Choice 4:	Global
Correct Answer:	Choice 1
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	19

Questio	n Bank – OOPS using C++ and Data Structures
Question:	class Alpha {
	public:
	char data[10000];
	Alpha();
	~Alpha();
	<b> </b> };
	class Beta {
	public:
	Beta() { n = 0; }
	void FillData(Alpha a);
	private:
	int n;
	<b>}</b> ;
	How do you make the above sample code more efficient?
Answer Choices	
Choice 1:	If possible, make the constructor for Beta private to reduce the overhead of public constructors.
Choice 2:	Change the return type in FillData to int to negate the implicit return conversion from "int" to "void".
Choice 3:	Make the destructor for Alpha virtual.
Choice 4:	Pass a const reference to Alpha in FillData
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	20
Question:	class MyClass {
	int x;
	public:
	MyClass(int I);
	};
	If a class does not have a copy constructor explicitly defined one will be implicitly defined for it. Referring to the sample code above, which one of the following declarations is the implicitly created copy constructor?
Answer Choices	
Choice 1:	MyClass(MyClass *f);
Choice 2:	MyClass(MyClass &f);
Choice 3:	MyClass(const MyClass *f);
Choice 4:	MyClass(const MyClass &f);
Correct Answer:	Choice 4

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Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++	
Q. No.:	21	
Question:	class HasStatic {   static int I;   };   Referring to the sample code above, what is the appropriate method of defining the member variable "I", and assigning it the value 10, outside of the class declaration?	
Answer Choices	Answer Choices	
Choice 1:	HasStatic I = 10;	
Choice 2:	int static I = 10;	
Choice 3:	static I(10);	
Choice 4:	int HasStatic::I = 10;	
Correct Answer:	Choice 4	
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)	
Reference:		
(If question		
taken from book/		
website/etc.)		

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	22
Question:	class X {   private:   int a;   protected:   X(){cout<<"X constructor was called"< <endl;} "x"="" above,="" called"<<endl}="" code="" destructor="" following="" is="" of="" one="" referring="" regarding="" statements="" td="" the="" to="" true?<="" was="" which="" };="" ~x(){cout<<"x=""></endl;}>
Answer Choices	
Choice 1:	X is an abstract class.
Choice 2:	Only subclasses of X may create X objects.
Choice 3:	Instances of X cannot be created.
Choice 4:	X objects can only be created using the default copy constructor.

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	U
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C.L.
•	Algorithms and Data Structures using C++
Q. No.:	23
Question:	class MyClass {
	const int x;
	protected:
	MyClass(int f);
	~MyClass();
	};
	MyClass f;
	Referring to the sample code above, why will the class
	declaration not compile?
Answer Choices	
Choice 1:	The variable x is const.
Choice 2:	The destructor is protected.
Choice 3:	The constructor is protected.
Choice 4:	There is no default constructor.
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	24
Question:	class MyClass {
	public:
	MyClass(int i) { }
	<b>}</b> ;
	class Bar : virtual MyClass {
	public:
	Bar() { }
	};

	<u>U</u>
	Bar b; Referring to the above code, when the object 'b' is defined, a compiler error will occur. What action fixes the compiler error?
Answer Choices	
Choice 1:	Adding a virtual destructor to the class Bar
Choice 2:	Adding a constructor to Bar which takes an int parameter
Choice 3:	Adding "MyClass()" to the Bar constructor
Choice 4:	Adding "MyClass(0)" to the Bar::Bar initializer list
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	25
Question:	Which one of the following describes characteristics of
	"protected" inheritance?
Answer Choices	
Choice 1:	The base class has access only to the public or protected members of the
	derived class.
Choice 2:	The derived class has non-public, inheritable, access to all but
	the private members of the base class.
Choice 3:	The derived class has access to all members of the base class.
Choice 4:	The private members of the base class are visible within the
	derived class.
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	26
Question:	The "virtual" specifier in a member function enables which one of the following?
Answer Choices	
Choice 1:	Monmorphism
Choice 2:	Late binding
Choice 3:	Metamorphism

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Choice 4:	Inheritance
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	27
Question:	class X {   public:   int x;   static void f(int z); };   void X::f(int y) {x=y;}   What is the error in the sample code above?
Answer Choices	
Choice 1:	The class X does not have any protected members.
Choice 2:	The static member function f() accesses the non-static z.
Choice 3:	The static member function f() accesses the non-static x.
Choice 4:	The member function f() must return a value.
Correct Answer:	Choice 3
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	28
Question:	template <class class="" t,="" x=""> class Obj {</class>
	T my_t;
	X my_x;
	public:
	Obj(T t, X x) : $my_t(t)$ , $my_x(x)$ { }
	<b>}</b> ;
	Referring to the sample code above, which one of the following is a valid conversion operator for the type T?
Answer Choices	
Choice 1:	T operator T () { return my_t; }
Choice 2:	T operator(T) const { return my_t; }

Choice 3:	operator(T) { return my_t; }
Choice 4:	operator T () const { return my_t; }
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	29
Question:	catch(exception &e) { } Referring to the sample code above, which one of the following lines of code produces a written description of the type of exception that "e" refers to?
Answer Choices	
Choice 1:	cout << e.type();
Choice 2:	<pre>cout &lt;&lt; e.name();</pre>
Choice 3:	<pre>cout &lt;&lt; typeid(e).name();</pre>
Choice 4:	<pre>cout &lt;&lt; e.what();</pre>
Correct Answer:	Choice 3
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	30
Question:	int f() {
	int I = 12;
	int &r = I;
	r += r / 4;
	int *p = &r
	*p += r;
	return I;
	}
	Referring to the sample code above, what is the return value of the

	function "f()"?
	Turicular I().
Answer Chaises	
Answer Choices	
Choice 1:	12
Choice 2:	15
Choice 3:	24
Choice 4:	30
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	31
Question:	The phenomenon where the object outlives the program execution time and exists between executions of a program is known as.
Answer Choices	
Choice 1:	Global Object
Choice 2:	Persistent Object
Choice 3:	Genericity
Choice 4:	Delegation
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	32
Question:	If a class member function is declared a const, the function
Answer Choices	
Choice 1:	Does not change the value of any data member of that class
Choice 2:	Does not change the value of any data member of implied object
Choice 3:	Does not change the value of any data member of that class
Choice 4:	All of the above
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)

Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	33
Question:	The act of grouping into a single object, both data and the operation that affect that data is known as
Answer Choices	
Choice 1:	Encapsulation
Choice 2:	Inheritance
Choice 3:	Abstraction
Choice 4:	None of the above
Correct Answer:	Choice 1
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	34
Question:	What is the output of the program?
	<pre>#include <iostream.h>  void main () {    for(int j = 1, sum = 0; j &lt; 5; j++)        sum += j;    sum = j;    cout &lt;&lt; sum; }</iostream.h></pre>
Answer Choices	
Choice 1:	5
Choice 2:	10
Choice 3:	Compilation error. Undefined variable sum and j
Choice 4:	6

Correct Answer:	Choice 1
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	35
Question:	Inheritance is expressed by the following statement?
Answer Choices	
Choice 1:	class car : public vehicle
Choice 2:	class car extends vehicle
Choice 3:	public class car extends vehicle
Choice 4:	class car inherits vehicle
Correct Answer:	Choice 1
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	36
Question:	Which of the following statements is not correct?
Answer Choices	
Choice 1:	You can create new operators like \$ or @
Choice 2:	You cannot change an operator's template
Choice 3:	Operators can only be overloaded when used with abstract data class
Choice 4:	Unary operators overloaded by means of a member functions takes no
	explicit arguments and return no explicit values
Correct Answer:	Choice 1
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	37

Question built Colo using C und built structures	
Question:	Which of the following is false about struct and class in C++?
Answer Choices	
Choice 1:	The members and base classes of a struct are public by default, while in
	class, they are private by default
Choice 2:	Struct and class are otherwise functionally equivalent
Choice 3:	A class supports all the access specifiers like private, protected and
	public
Choice 4:	A struct cannot have protected access specifier
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	38
Question:	Abstract base class is one, which has
Answer Choices	
Choice 1:	All pure virtual functions
Choice 2:	At least one pure virtual function
Choice 3:	Functions with abstract keyword
Choice 4:	No pure virtual functions
Correct Answer:	Choice 2
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	39
Question:	What is exception handling?
Answer Choices	
Choice 1:	Errors which occur at runtime
Choice 2:	When abnormal situation arises at compile time

Choice 3:	When errors occur at link time
Choice 4:	None of the above
Correct Answer:	Choice 1
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	40
Question:	Which of the following is a correct statement?
Answer Choices	
Choice 1:	Abstract class object can be created
Choice 2:	Pointer to abstract class can be created
Choice 3:	Reference to abstract class can be created
Choice 4:	Both 2 and 3
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	41
Question:	What restrictions apply to reference variables?
Answer Choices	
Choice 1:	You cannot reference a reference variable (i.e. you cannot take its
	address)
Choice 2:	You cannot create arrays of references
Choice 3:	References are not allowed on bit fields
Choice 4:	All of the above
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

```
Q. No.:
                   42
                   What is the output of the program?
Question:
                       #include <iostream.h>
                      class test
                       {
                         int x;
                         public:
                            test(int y)
                               x = y;
                            }
                            int getX()
                            {
                               int x = 40;
                               return this->x;
                      };
                      void main()
                         test a(10);
                         cout << a.getX();</pre>
Answer Choices
                   Compilation error
Choice 1:
Choice 2:
                   10
Choice 3:
                   40
                   None of the above
Choice 4:
Correct Answer:
                   Choice 2
                   Easy / Intermediate / Difficult (To be marked by review team)
Difficulty Level:
Reference:
(If question
taken from book/
website/etc.)
```

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	43
Question:	What is the prototype of pre increment operator in class test?

	O
Answer Choices	
Choice 1:	void operator ++ ();
Choice 2:	test operator ++ (int);
Choice 3:	void operator ++ (int);
Choice 4:	test operator ++ ();
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	44
Question:	What restrictions apply to extern "C"?
Answer Choices	
Choice 1:	You can specify extern "C" for only one instance of an overloaded
	function; all other instances of an overloaded function have C++ linkage
Choice 2:	You can only declare C functions as 'extern "C"
Choice 3:	You cannot declare a member function with extern "C"
Choice 4:	Both A and C
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	45
Question:	What is the output of the program?
	#include <iostream.h></iostream.h>
	void fun(int & a, int b)
	{
	a += 20;
	b += 30;
	}
	void main()

```
int x = 10, y = 50;
                        fun(x, y);
                        cout << x << " " << y;
                      }
Answer Choices
Choice 1:
                   30 80
Choice 2:
                   10 50
Choice 3:
                   30 50
Choice 4:
                   10 80
Correct Answer:
                   Choice 3
                  Easy / Intermediate / Difficult (To be marked by review team)
Difficulty Level:
Reference:
(If question
taken from book/
website/etc.)
```

	41 11 12 12 1
Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	46
Question:	<pre>What is the output of the following?  #include <iostream.h>   class test   {      char x;      static char c;   };</iostream.h></pre>
	<pre>void main() {    test a;    cout &lt;&lt; sizeof(a); }</pre>
Answer Choices	
Choice 1:	1
Choice 2:	2
Choice 3:	4
Choice 4:	None of the above
Correct Answer:	Choice 1
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	

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Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	47
Question:	What is the member function called in the statement "test b = a" shown below?
	void main()
	{
	test a(10);
	test b = a;
	}
Answer Choices	
Choice 1:	Assignment operator
Choice 2:	Constructor
Choice 3:	Copy constructor
Choice 4:	None of the above
Correct Answer:	Choice 3
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	48
Question:	The only member functions that could be called for const
	objects would be?
Answer Choices	
Choice 1:	Constructors
Choice 2:	Destructor
Choice 3:	Const member functions
Choice 4:	All of the above
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	49

~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	<b>2</b> 110 2 11 2 11 11 1 2 1 1 1 1 1 1 1 1 1	
Question:	Which keyword do we use if the data members of the class are to be modified even when it belongs to a constant object?	
Answer Choices		
Choice 1:	mutable	
Choice 2:	static	
Choice 3:	const	
Choice 4:	friend	
Correct Answer:	Choice 1	
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)	
Reference:		
(If question		
taken from book/		
website/etc.)		

Topic / Module:	Algorithms and Data Structures using C++
Q. No.:	50
Question:	Which of the following statement is not true about static member functions?
Answer Choices	
Choice 1:	Cannot make use of this pointer
Choice 2:	Cannot access any non-static data
Choice 3:	Cannot be declared const
Choice 4:	None of the above
Correct Answer:	Choice 4
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)
Reference:	
(If question	
taken from book/	
website/etc.)	

Topic / Module:	C++ and Data structure
Q. No.:	51
Question:	int *ptr = new int;
	*ptr = 10;
	int *ptr1=ptr;
	delete ptr;
	The code shown above results in
Answer Choices	
Choice 1:	memory leak
Choice 2:	dangling pointer
Choice 3:	runtime error
Choice 4:	compiler error

Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult(To be marked by review team)
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	C++ and Data structure	
Q. No.:	52	
Question:	Identify the output of the program	
	void main()	
	{	
	int iLoop =0;	
	while (iLoop <= 245);	
	{	
	cout< <endl<< *="" iloop="" iloop;<="" td=""></endl<<>	
	iLoop ++;	
	}	
	}	
Answer Choices		
Choice 1:	will print squares upto 127 and again from -128 to 127	
Choice 2:	Garbage value	
Choice 3:	The loop will never end	
Choice 4:	will print the squares of the numbers from 0 to 245	
Correct Answer:	3	
Difficulty Level:	Easy / Intermediate / Difficult (To be marked by review team)	
Reference:	Unknown	
(If question		
taken from book/		
website/etc.)		

Topic / Module:	
Q. No.:	53
Question:	The data encapsulation refers to the feature in which
Answer Choices	
Choice 1:	We hide the unnecessary details from the outside world using classes
Choice 2:	we give access only to the functions and not the data
Choice 3:	we put the data and functions that operate on the data together in the
	class
Choice 4:	There is no such a feature in C++
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	54
Question:	Queue is implemented with linked list, keeping track of a front pointer and
	a rear pointer.
	Which of the following will change during an insertion into a nonempty
	queue.
Answer Choices	
Choice 1:	Neither changes
Choice 2:	Only front pointer changes
Choice 3:	Only rear pointer changes
Choice 4:	Both changes
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	55
Question:	The size of the structure in the C++ is equals to
Answer Choices	
Choice 1:	The average of the size of all variables in the structure
Choice 2:	Changes as the data is entered.
Choice 3:	The sum of memory size of the variables in the structure
Choice 4:	The size of the largest variable in the structure
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unkno
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	56
Question:	What is output of the following program  void main() {  int i;  for (i=1; i<=32767; i++)  cout< <endl<<i; td="" }<=""></endl<<i;>
Answer Choices	
Choice 1:	The endless loop will run
Choice 2:	will print the values from 1 to 32767
Choice 3:	will give an Error
Choice 4:	will print the values from 1 to 127 only

Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	57
Question:	Constructors are
Answer Choices	
Choice 1:	constructor can have return type
Choice 2:	The functions with the same name as that of the class
Choice 3:	The functions that are called by the user
Choice 4:	Used to construct the class
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	58
Question:	class X { public:     X() { }     X(const X& rhs): n(rhs.n) { }     ~X() { }     X& operator=(X& rhs) { this->n = rhs.n; return *this; }     void setNumber(int a) { this->n = a; }     private:     int n; };     void main() {         X a;         X b;         X c;         c.setNumber(1);     a = b = c; } What can be done in the sample code above to allow the statement "a = b = c"?
Answer Choices	
Choice 1:	Add a copy constructor, which will return the value of 'n' (the only member variable)
Choice 2:	Return a dereferenced "this" pointer in the overloaded assignment operator
Choice 3:	The statement is illegal. Nothing can be done to force it in C/C++.
Choice 4:	This program is perfectly fine.
Correct Answer:	4
Difficulty Level:	Easy / Intermediate / Difficult

Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	59
Question:	Destructors are
Answer Choices	
Choice 1:	Normal functions
Choice 2:	The functions that are called when the object of that class goes out of
	scope
Choice 3:	Have the same name as that of class preceded with a ~ and used to
	destroy that class
Choice 4:	None of these
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	60
Question:	Friend functions has the access to the
Answer Choices	
Choice 1:	all private, protected and public members
Choice 2:	Only private members
Choice 3:	Only public members
Choice 4:	only protected and public members
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknow
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	61
Question:	What will be the result of the following program:
	void main()
	{
	long power(int , int=2);
	clrscr();
	int num=5;
	cout<< power(num);
	getch();

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```
long power(int n, int p )
                          long res=1;
                          for (int i = 1; i<=p; i++)
                                res = res * n;
                          return res;
Answer Choices
Choice 1:
                    625
Choice 2:
                    Garbage value
                    compile Error
Choice 3:
Choice 4:
                    25
Correct Answer:
Difficulty Level:
                    Easy / Intermediate / Difficult
Reference:
                    Unknown
(If question
taken from book/
website/etc.)
```

Topic / Module:	
Q. No.:	62
Question:	What is output of the following program
	void main()
	int feet = 27;
	clrscr();
	cout<< endl<< feet_to_inches(feet);
	getch();
	}
	inline float feet_to_inches(int feet)
	{
	float res;
	res = feet*12.0;
	return res ;
	}
Answer Choices	
Choice 1:	Error : function feet_to_inches should have a prototype
Choice 2:	324
Choice 3:	300
Choice 4:	None of these
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	63
Question:	Which of the following is most correct
Answer Choices	
Choice 1:	Using Template you can create your own template library like STL
Choice 2:	program written using template can be use for any type of data
Choice 3:	In template data type is generated at runtime
Choice 4:	In template if algorithm is same, then it can be used for any type of data
	(user defined data also)
1	1 and 2
2	All 1, 2, 3 and 4
3	1 and 4
4	1, 2 and 3
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	64
Question:	<pre>void swap(int &amp;j,int i)</pre>
	swap(k,j); cout< <i<<" "<<j<<"="" "<<k<<endl;="" 0;}="" is="" output?<="" return="" td="" what=""></i<<">
Answer Choices	
Choice 1:	3 4 5
Choice 2:	4 3 5
Choice 3:	3 4 4
Choice 4:	4 5 6
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	65

201001101	The bank of the bank of actures
Question:	Which of the following defines a class with a static data member and correctly initializes it?
Answer Choices	
Choice 1:	class bad {static I;};
	int bad:I=99;
Choice 2:	class bad {static int I = 99;};
Choice 3:	class bad {static int I;};
	int bad::I=99;
Choice 4:	class bad {static int I=99;};
	int I::bad=99;
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	66
Question:	int a[][4] = { {1,2,3}, {1,3,5}, {2,4,6}, {4,8} }; int z = (*(a + 2))[2]; Is the above sample code legal, and if so, what is the value of 'z'? If it is not legal, why not?
Answer Choices	
Choice 1:	No. Only two elements were given (4 and 8), while three were required
Choice 2:	No. The statement "int $z = (*(a + 2))[2];$ " is illegal
Choice 3:	Yes. The value in 'z' will be an address of 'a' plus an offset of 2 times the size of 'a' plus 2
Choice 4:	Yes. The value in z will be 6
Correct Answer:	4
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unk, wn
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	67
Question:	class X { int j;
	public:
	X() { this->j = 0;}
	$X(int n) \{ this->j = n; \}$
	$X(const X\& rhs) \{ this->j = rhs.j; \} \};$
	int main()
	{ X x1, x2(5);
	X x3(x2);
	$x1 = x3;$ }
	What will happen in the above sample code during compilation and,

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	possibly, execution?
Answer Choices	
Choice 1:	It will compile. Upon execution, the default constructor for 'X' will be
	called, then the overloaded constructor, and then the copy
	constructor. The default assignment operator will be used
Choice 2:	It will fail during compilation because the copy constructor is attempting
	to use a const reference to modify a member variable.
Choice 3:	It will compile. Upon execution, the default construct for 'X' will be called,
	then the overloaded constructor, and then a run-time error will occur
	when the assignment of x1 = x3 is attempte
Choice 4:	It will compile. Upon execution, the default constructor for 'X' will be
	called once, and then the copy constructor will be called twice, with the
	last call being used to assign x1 = x3
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	68
Question:	Which of the following stmt. is true about linked list
Answer Choices	
Choice A:	items can be added any where in the queue
Choice B:	items can only be deleted from the front of the queue
Choice C:	Queue is the FIFO structure
Choice D:	Items can be added only from the rear of queue
Choice 1:	2 & 3
Choice 2:	2 & 4
Choice 3:	1 & 4
Choice 4:	2 &3 & 4
Correct Answer:	4
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Jnknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	69
Question:	DisAdvantage of linked list over array is
Answer Choices	
Choice 1:	Linked list is dynamic, array is static in nature
Choice 2:	More space is required to store linkedlist than array

Choice 3:	Linked list contains pointers
Choice 4:	In linked list Insertion and deletion in-between is inefficient
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	70
Question:	The new address field of the last node in the linear linked list contains
Answer Choices	
Choice 1:	Address of first node
Choice 2:	Address of last node
Choice 3:	Garbage value
Choice 4:	A null value
Correct Answer:	4
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	71
Question:	Which of the statements are true about link list
Answer Choices	
Choice A:	Nodes can only be added to the list at the start
Choice B:	Nodes can be inserted in the middle of the list
Choice C:	The nodes can be inserted at the start and end of the linked list
Choice D:	Nodes can only be added at the end of list
Choice 1:	2 & 3
Choice 2:	1 & 4
Choice 3:	2 & 4
Choice 4:	1 & 2
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	72
Question:	Which of the following is true
Answer Choices	

Choice 1:	In protected inheritance, public members become protected of derived class
Choice 2:	In protected inheritance, private members become protected of base class
Choice 3:	In protected inheritance, protected members remain protected of base class
Choice 4:	In protected inheritance, protected members become public of base clas
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	73
Question:	Binary tree has essentially 3 distinct subset that are
Answer Choices	
Choice 1:	Root, Left & Right Sub trees
Choice 2:	First, Second & Third Trees
Choice 3:	Root, Next & Previous Sub trees
Choice 4:	None of Above
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	74
Question:	In a Binary Tree a node having no sub trees are called
Answer Choices	
Choice 1:	Root Nodes
Choice 2:	Leaf Nodes
Choice 3:	Left Nodes
Choice 4:	End Node
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	75
Question:	Strictly Binary Trees are

Answer Choices	
Choice 1:	The Binary Trees in which every non leaf node has non empty left &
	right sub trees
Choice 2:	The trees which must have at least one sub tree
Choice 3:	The tree with no leaf node
Choice 4:	None of the above
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	76
Question:	There are 3 methods of traversing a binary tree
Answer Choices	
Choice 1:	Preorder, Straight Order, Post order
Choice 2:	Preorder, In order, Post order
Choice 3:	Preorder, Middle order, Post order
Choice 4:	None of the above
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	known
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	77
Question:	If a base class member access is public, and an inherited class access specifier is private, which of the following statements is true?
Answer Choices	
Choice 1:	The base class members can be accessed by clients of the derived class objects
Choice 2:	The base class members can be accessed by the derived class.
Choice 3:	The derived class members CANNOT be accessed by the derived class.
Choice 4:	The base class members CANNOT be accessed by the derived class.
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	78

. —	
Question:	Which of the following holds valid for the threaded tress
Answer Choices	
Choice 1:	The thread pointer is different then a tree pointer i.e use to link a node
	to its left or right
Choice 2:	The thread is a pointer which points to the left or right node of the binary
	tree
Choice 3:	The thread is a different node in the binary tree
Choice 4:	None of the above
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	79
Question:	To find record at nth position which of this is best
Answer Choices	
Choice 1:	List implemented using single link list
Choice 2:	List implemented using double link list
Choice 3:	Double or Single Link List are equally best
Choice 4:	List implemented using an array
Correct Answer:	4
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	known
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	80
Question:	Classes are useful because they
Answer Choices	
Choice 1:	encapsulate all the features of an entity in one place
Choice 2:	can be consider similar to real existing objects
Choice 3:	provide direct access to information
Choice 4:	bring together all aspects of and entity in one place
Choice A:	1 and 2
Choice B:	1, 2 and 3
Choice C:	1, 2 and 4
Choice D	1 to 4
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	

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website/etc.)

Topic / Module:	
Q. No.:	81
Question:	int matrix[][2] = { {1}, {2} };
	Which of the following choices accurately describes the declaration
	above?
Answer Choices	
Choice 1:	It is a two dimensional array with element 0,0 = 1, element 0,1 =
	unknown, element 1,0 = 2, and element 1,1 = unknown
Choice 2:	It is illegal in that the first index was not specified.
Choice 3:	It is a two dimensional array with element $0.0 = 1$ , element $0.1 = 0$ ,
	element 1,0 = 2, and element 1,1 = 0
Choice 4:	It is a two dimensional array with element $0.0 = 1$ , element $0.1 = 1$ ,
	element 1,0 = 2, and element 1,1 = 2
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	82
Question:	Which of the following about operator overloading is correct?
Answer Choices	
Choice 1:	you can create new operator
Choice 2:	operator provided by language has first preference
Choice 3:	existing operator is given new meaning
Choice 4:	any operator can be overloaded
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	'nknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	83
Question:	struct SomeClass
	<b>{</b>
	private:
	int x ;
	public:
	SomeClass (int xx) : x(xx) {} ;
	};
	void main() {

	0
	SomeClass x (10);
	SomeClass y(x);}
	What, if anything, is wrong with the initialization of y in the sample code
	above?
Answer Choices	
Choice 1:	It is illegal because SomeClass has no copy constructor
Choice 2:	It is illegal because SomeClass has no public copy constructor
Choice 3:	It is illegal because SomeClass has no default constructor
Choice 4:	There is nothing wrong with the initialization of y. It is perfectly legal
Correct Answer:	4
Difficulty Level:	Intermediate
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	84
Question:	float f = 1 / (177% 5); char percent[5]; switch(f) {   case .25: std::strcpy(percent,"25%"); break;   case .5: std::strcpy(percent,"50%"); break;   case .75: std::strcpy(percent,"75%"); break;   default: std::strcpy(percent,"100%"); } In the sample code above, what will the value of the char[] "percent"   be?
Answer Choices	
Choice 1:	50%
Choice 2:	75%
Choice 3:	You cannot use a float in a switch statement.
Choice 4:	100%.
Correct Answer:	3
Difficulty Level:	Easy
Reference:	Un Jown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	85
Question:	With regard to C++ friendship, which of the following statements is false?
Answer Choices	
Choice 1:	If class A is a friend of class B, then class A can see all of class B's private data and methods
Choice 2:	If class A is a friend of class B, and class C inherits from B, then class A is a friend of C.

	<u> </u>
Choice 3:	If class A is a friend of class B, you cannot assume that class B is a
	friend of class A
Choice 4:	You can declare both a friend function and a friend class
Correct Answer:	2
Difficulty Level:	Intermediate
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	86
Question:	class someclass{};
	void main()
	{ someclass x;
	function () = x ; }
	Is the assignment statement in the sample code above legal or illegal?
Answer Choices	
Choice 1:	It must be illegal since the left side of the = operator is not an Ivalue
Choice 2:	It is legal if the return type of function is a reference to someclass
Choice 3:	It is legal if there is an overloaded assignment operator
Choice 4:	It must be illegal since the left side of the = operator is not an rvalue
Correct Answer:	2
Difficulty Level:	Intermediate
Reference:	riknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	87
Question:	Why would your class have a pure virtual function?
Answer Choices	
Choice 1:	To insure that this function is overridden in derived classes that are to be instantiated
Choice 2:	To allow for templated classes to be used with friend functions
Choice 3:	To maximize the execution speed of the function providing that memory
	is not at a premium
Choice 4:	To maximize the memory efficiency providing that execution speed is not
	at a premium
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	The bank of the bank of actual of the bank
Q. No.:	88
Question:	class X {   public:   X() { pc = new char[10]; }   ~X() { delete [] pc; }   private:   char* pc;   };   class Y : public X { };   void main()   {    Y* py = new Y();   delete py;   }   What can be said about "X::pc" in the sample code above?
Answer Choices	
Choice 1:	Since "pc" is private, it will not be created when a new class Y is created, so it will neither get created nor destroyed
Choice 2:	It will get created, but it will not get properly destroyed
Choice 3:	It will both get created and properly destroyed
Choice 4:	It will not get created, but when "py" goes out of scope, an error will occur when it attempts to destroy it
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference: (If question taken from book/ website/etc.)	<b>Vn</b> known

Topic / Module:	
Q. No.:	89
Question:	Which of the following must be an example of Polymorphism?
Answer Choices	
Choice 1:	A class that has several derived classes
Choice 2:	A pointer to a derived class invoking a member function defined in the
	base class
Choice 3:	A pointer to a class invoking the member function of a sibling class
Choice 4:	None of the above examples are necessarily an example of
	polymorphism
Correct Answer:	4
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:
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O No.	90
Q. No.:	
Question:	In traversing a binary tree the post order method refers to
Answer Choices	
Choice 1:	Traverse the left sub tree in post order
	Traverse the right sub tree in post order
	Visit the root
Choice 2:	Visit the root
	Traverse the left sub tree in post order
	Traverse the right sub tree in post order
Choice 3:	Traverse the left sub tree in post order
	Visit the root
	Traverse the right sub tree in post order
Choice 4:	Visit the root
	Traverse the right sub tree in post order
	Traverse the left sub tree in post order
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	91
Question:	Which kind of functions can access private member variables of a class?
Answer Choices	
Choice 1:	Friend functions of the class
Choice 2:	Private member functions of the class
Choice 3:	Public member functions of the class
Choice 4:	All of the above can access private member variables
Correct Answer:	4
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Inknow
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	92
Question:	Here is a function prototype and some possible function calls: int
	day_of_week(int year, int month = 1, int day = 1);
	// Possible function calls:
	cout << day_of_week( );
	cout << day_of_week(1995);
	cout << day_of_week(1995, 10);

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	cout << day_of_week(1995, 10, 4);
	How many of the function calls are legal?
Answer Choices	
Choice 1:	1 of them is legal
Choice 2:	1 of them is legal
Choice 3:	3 of them are legal
Choice 4:	All of them are legal
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	93
Question:	Here is a small function definition:  void f(int i, int &k) {     i = 1;     k = 2;     }  Suppose that a main program has two integer variables x and y, which are given the value 0. Then the main program calls f(x,y); What are the values of x and y after the function f finishes?
Answer Choices	
Choice 1:	Both x and y are still 0
Choice 2:	x is now 1, but y is still 0
Choice 3:	x is still 0, but y is now 2
Choice 4:	x is now 1, and y is now 2
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Up nown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	94
Question:	The following numbers are inserted into an empty binary search tree in the given order: 10, 1, 3, 5, 15, 12, 16. What is the height of the binary search tree (the height is the maximum distance of a leaf node from the root)?
Answer Choices	
Choice 1:	2

Choice 2:	3
Choice 3:	4
Choice 4:	6
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	95
Question:	Estimate the output :     class Base {         int cNo; char cName[20];         public :             void show()             { cout< <endl<<"base :="" b1.show();="" b1;="" b2="d1;" b2.show();="" base="" base&="" class="" class";="" class";}="" cout<<endl<<"derived="" d1="b1;" d1.show();="" d1;="" derived="" dno;="" float="" main(){="" public="" public:="" show()="" td="" void="" {="" }="" };="" }<=""></endl<<"base>
Answer Choices	
Choice 1:	Error : Can not convert Base to Derived
Choice 2:	Base Class Derived Class Base Class Derived Class
Choice 3:	Base Class Derived Class Derived Class Base Class
Choice 4:	Base Class Derived Class Derived Class Derived Class
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/ website/etc.)	

Topic / Module:	and Butte Structures
Q. No.:	96
Question:	class A
	<pre>{           public:           int i=0;           int j;//=20; };</pre>
	<pre>void main() {     A obj;     cout&lt;&lt; obj.i;     cout&lt;&lt; obj.j; }</pre>
Answer Choices	
Choice 1:	10 20
Choice 2:	20 10
Choice 3:	Error
Choice 4:	Garbage value
Correct Answer:	3
Difficulty Level:	Easy / Intermediate / Difficult
Reference: (If question taken from book/ website/etc.)	Unknown

Topic / Module:	
Q. No.:	97
Question:	What will be the output of the following program : union Book
	<pre>char name[10];     float price;     int pages; }; void main() {     Book b1;     cout&lt;<endl<<sizeof(b1); pre="" }<=""></endl<<sizeof(b1);></pre>
Answer Choices	
Choice 1:	10
Choice 2:	4
Choice 3:	2
Choice 4:	16
Correct Answer:	1
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

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```
Topic / Module:
Q. No.:
                         98
                         class A
Question:
                                 int i;
                                 float p;
                                 char c;
                                 public:
                                         A(int in, float f, char ch)
                                                 i = in;
                                                 p = f;
                                                 c = ch;
                                         void show();
                         void A::show()
                                  cout<<endl<<"i = "<<i << ", p = "<<p<< ", c = " <<c;
                         void main()
                                 A obj1(355,78.90,'D');
                                 A obj2;
                                 obj1.show();
                                 obj2 = obj1;
                                 obj2.show();
Answer Choices
                         will print the values of the variables in both the objects
Choice 1:
                         will print the values of the obj1 and garbage value for obj2
Choice 2:
                         will print garbage values for both the objects
Choice 3:
                         Compiler Error
Choice 4:
                         4
Correct Answer:
Difficulty Level:
                         Easy / Intermediate / Difficult
Reference:
(If question
taken from book/
website/etc.)
```

Topic / Module:	
Q. No.:	99
Question:	<pre>void afunction(int *x) {     x=new int;     *x=12; } int main() {     int v=10;     afunction(&amp;v);     cout&lt;&lt;<v; pre="" }<=""></v;></pre>
Answer Choices	
Choice 1:	Outputs 12
Choice 2:	Outputs 10
Choice 3:	Outputs the address of v
Choice 4:	Compilation error

Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference:	Unknown
(If question	
taken from book/	
website/etc.)	

Topic / Module:	
Q. No.:	100
Question:	Which uses less memory?
Answer Choices	
Choice 1:	<pre>struct astruct { int x; float y; int v; };</pre>
Choice 2:	union aunion { int x; float v; };
Choice 3:	char array[10];
Choice 4:	
Correct Answer:	2
Difficulty Level:	Easy / Intermediate / Difficult
Reference: (If question taken from book/ website/etc.)	nknown

Q. No. 101

Question:

Which statement is most appropriate for C++ language??

**Answer Choices:** 

A. Type less language

B. Statically typed language

C. Dynamically typed language

D. Both B and C

Difficulty Level: Easy
Correct Answer: B

Q. No. 102

Question:

Which of the following is a correct statement?

### **Answer Choices**

- A. A reference is declared using \* operator
- B. Once a reference variable has been defined to refer to a particular variable it can refer to any other variable
- C. A variable can have multiple references
- D. A reference must always be initialized within classes

Difficulty Level: Intermediate

Correct Answer: C

Q. No. 103

Question:

main() is an example of .....

**Answer Choice:** 

A. user defined function

B. system-supplied function

C. inline function

D. none of the above

Difficulty Level: Easy

Correct Answer: A

Q. No. 104

Question:

1. What will be the output of below cout (assume 64 bit system)? cout<<25u-50:

**Answer Choices** 

A. -25

B. 25

C. 4294967271

D. None of the above

Difficulty Level: Difficult

Correct Answer: C

Q. No. 105

Question:

What will be the output of the following program below?

#include<iostream>

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```
Question Bank - OOPS using C++ and Data Structures
      using namespace std;
      class Surprise{
             void virtual Confuse(void)=0;
      };
      int main(){
             cout<<sizeof(Surprise)<<endl;
             return 0;
Answer Choices
 A. The program will report compilation error(S)
 B. The program will print 4 in 32bit compiler and 8 in 64bit compiler under Windows
 C. The program will print 0
 D. The program will print 1
 Difficulty Level: Easy
 Correct Answer: B
 Q. No. 106
 Question:
      How many times will the for loop get executed:
      unsigned char half limit = 150;
      for (unsigned char i = 0; i < 2 * half limit; ++i)
      { // do something;
Answer Choice:
      A. 300
      B. 150
      C. 301
      D. Infinite loop
Difficulty Level: Difficult
Correct Answer: D
Q. No. 107
Question:
      What is the output of the following?
      #include<iostream>
      class Test{
        static void fun(int i){}
```

# Question Bank – OOPS using C++ and Data Structures void fun(int i){} }; int main(){ Test t; getchar(); return 0; }

### **Answer Choices**

- A. 0
- B. No output program will execute successfully.
- C. Compilation error
- D. Runtime error

Difficulty Level: Intermediate

Correct Answer: C

Q. No. 108

Question:

The symbol \*\* ......

**Answer Choices** 

A. Can be overloaded by changing its data type.

- B. Can't be overloaded, as on overloading its meaning shall be changed.
- C. Can be overloaded
- D. Can't be overloaded as it is not a C++ operator.

Difficulty Level: Easy

Correct Answer: D

Q. No. 109

Question:

Which of the following is false?

**Answer Choices** 

- A. Inheritance is deriving new class from existing class
- B. In an inheritance, all data and function members of base class are derived by derived class
- C. We can specify which data and function members of base class will be inherited by derived class
- D. We can add new functions to derived class without recompiling the base class

Difficulty Level: Intermediate

Correct Answer: B

### Q. No. 110

### Question:

Which of the following statements is correct?

### **Answer Choices**

- A. Inline member functions are also inherited to the derived class
- B. Inline member functions are not inherited to the derived class
- C. The inheritance of the inline member functions depends upon their scope
- D. Inline member functions are by default inherited to the derived class

Difficulty Level: Easy

Correct Answer: C

Q. No. 111

### Question:

A class is called an abstract class when a class has a .....?

### **Answer Choices**

- A. virtual function
- B. friend function
- C. static function
- D. pure virtual function

Difficulty Level: Easy

Correct Answer: D

Q. No. 112

### Question:

Which one of the following options is correct about the statement given below?

The compiler checks the type of reference in the object and not the type of object.

### **Answer Choices**

- A. Inheritance
- B. Polymorphism
- C. Abstraction
- D. Encapsulation

Difficulty Level: Intermediate

Correct Answer: B

### Q. No. 113

### Question:

If Class A is friend of class B and if class B is friend of class C then, which of the following is true?

### **Answer Choices**

- A. Class C is friend of Class A
- B. Class A is friend of class C
- C. Class A and Class C do not have any friend relationship
- D. None of the above.

Difficulty Level: Intermediate

Correct Answer: B

Q. No. 114

Question:

What will happen in this code? int a = 100, b = 200; int \*p = &a, \*q = &b; p = q;

### **Answer Choices**

- A. b is assigned to a
- B. p now points to b
- C. a is assigned to b
- D. q now points to a

Difficulty Level: Intermediate

Correct Answer: B

Q No 115

Question:

enum state {working, failed};
enum result {failed, passed};

int main() { cout<<"\n Hello world...";
return 0; }</pre>

**Answer Choices:** 

- A. No output
- B. Compilation Error

- C. Runtime Error
- D. Prints Hello World... on new line

Difficulty Level: Intermediate

Correct Answer: B

Q. No. 116

Question:

The return value of the following code is:

```
Class1& test(Class1 obj)
Class1 *ptr = new Class1();
.....
return {
ptr;
}
```

### **Answer Choice:**

- A. object of Class1
- B. reference to ptr
- C. reference of Class1
- D. object pointed by ptr

Difficulty Level: Intermediate

Correct Answer: B

Q. No. 117

Question:

```
What is the output of following code?
class A {
  public: A() {}
    ~A() { throw 42; }
  };
  int main() {
    try {
      A a;
      throw 32;
      } catch(int b) {
      cout << b;
    }
  return 0;
}
```

**Answer Choices** 

- A. Abnormal program termination
- B. 32
- C. 42
- D. Compile time error

Difficulty Level: Intermediate

Correct Answer: A

Q. No. 118

Question:

A direct access file is

### **Answer Choices**

- A. A file in which records are arranged in a way they are inserted in a file
- B. A file in which records are arranged in a particular order
- C. Files which are stored on direct access storage medium
- D. None of the above

Difficulty Level: Easy

Correct Answer: C

Q. No. 119

### Question:

An application iterates the hashtable by calling the ........... and ............ member functions.

### **Answer Choices**

- A. hasNext() and hasDelete()
- B. hasNext() and getNextKey()
- C. Both A and B
- D. None of these

Difficulty Level:Easy

Correct Answer: B

Q. No. 120

### Question:

How many copies of the functions will be generated by the compiler from one copy of function template, if the function is called using three different types of arguments?

### **Answer Choices**

- A. 3
- B. 1
- C. 4
- D. 2

Difficulty Level: Intermediate

Correct Answer: A

Q. No. 121

### Question:

The sequence of operations- push(1), push(2), pop, push(1), push(2), pop, pop, pop, push(2), pop are performed on a stack, the sequence of popped out values are?

Answer Choices

- A. 2, 2, 1, 1, 2
- B. 2, 2, 1, 2, 2
- C. 2, 1, 2, 2, 1
- D. 2, 1, 2, 2, 2

Difficulty Level: Easy

Correct Answer: A

Q. No. 122

### Question:

In circular queue, what will be the value of rear? Answer Choices

- A. rear= rear+1;
- B. rear=(rear+1)%[Queue Size-1]
- C. rear=(rear+1)%Queue Size
- D. rear=(rear-1) %Queue Size

Difficulty Level: Easy

Correct Answer: C

Q. No. 123

### Question:

In circular linked list, insertion of node requires modification of?

**Answer Choices** 

- A. One pointer
- B. Two pointer
- C. Three pointer

### D. None.

Difficulty Level: Intermediate

Correct Answer: B

### Q. No. 124

### Question:

Consider an implementation of unsorted circular linked list. Suppose it has its representation with a head pointer only. Given the representation, which of the following operation can be implemented in O(1) time?

- i) Insertion at the front of the linked list
- ii) Insertion at the end of the linked list
- iii) Deletion of the front node of the linked list
- iv) Deletion of the end node of the linked list

### **Answer Choices**

- A. I and II
- B. I and III
- C. I, II, III and IV
- D. None

Difficulty Level: Difficult

Correct Answer: B

Q. No. 125

### Question:

When inorder traversing a tree resulted E A C K F H D B G; the preorder traversal would return

### **Answer Choices**

- A. FAEKCDBHG
- B. FAEKCDHGB
- C. EAFKHDCBG
- D. FEAKDCHBG

Difficulty Level: Easy

Correct Answer: B

Q. No. 126

# Question Bank – OOPS using C++ and Data Structures Question:

A binary tree stored using linked representation can be converted to its mirror image by traversing it in

### **Answer Choices**

- A. Inorder
- B. Preorder
- C. Postorder
- D. Any Order

Difficulty Level: Intermediate

Correct Answer: B

Q. No. 127

### Question:

Suppose we have numbers between 1 and 1000 in a binary search tree and want to search for the number 363. Which of the following sequence could not be the sequence of the node examined?

### **Answer Choices**

- A. 2, 252, 401, 398, 330, 344, 397, 363
- B. 924, 220, 911, 244, 898, 258, 362, 363
- C. 925, 202, 911, 240, 912, 245, 258, 363,
- D. 2, 399, 387, 219, 266, 382, 381, 278, 363

Difficulty Level: Intermediate

Correct Answer: C

Q. No. 128

### Question:

A threaded binary tree is a binary tree in which every node that does not have right child has a thread to its

### **Answer Choices**

- A. Pre-order successor
- B. In-order successor
- C. In-order predecessor
- D. Post-order successor

Difficulty Level: Easy Correct Answer: B

Q. No. 129

Question:

A Graph 'G' with n nodes is bipartite if it contains

**Answer Choices** 

- A. N edges
- B. A cycle of odd length
- C. No cycle of odd length
- D. N<sup>2</sup> edges

Difficulty Level: Intermediate

Correct Answer: C

Q. No. 130

Question:

The number of edges in a simple, n-vertex, complete graph is-

**Answer Choices** 

- A. N\*(N-2)
- B. N\*(N-1)
- C. N\*(N-1)/2
- D. N\*(N-1)\*(N-2)

Difficulty Level: Easy

Correct Answer: C

Q. No. 131

Question:

The spanning tree of connected graph with 10 vertices contains

**Answer Choices** 

- A. 9 edges
- B. 11edges
- C. 9 vertices
- D. 10 edges

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Difficulty Level: Easy Correct Answer: A

Q. No. 132

Question:

Hashing collision resolution techniques are-

**Answer Choices** 

- A. Huffman Coding, linear Hashing
- B. Bucket Addressing, Huffman Coding
- C. Chaining, Huffman Coding
- D. Chaining, Bucket Addressing

Difficulty Level: Easy
Correct Answer: D

Q. No. 133

Question:

The way a card game player arranges his cards as he pick them up one by one, is an example of?

**Answer Choices** 

- A. Bubble sort
- B. Selection sort
- C. Insertion sort
- D. Merge sort

Difficulty Level: Easy

Correct Answer: C

Q. No. 134

Question:

The search technique for searching a sorted file that requires increased amount of space is

**Answer Choices** 

- A. Indexed Sequential Search
- B. Interpolation Search
- C. Tree search
- D. Binary Search

Difficulty Level: Intermediate

Correct Answer: A

Q. No. 135

### Question:

If n numbers are to be sorted in ascending order in O(nlogn) time, which of the following tree can be used

### **Answer Choices**

- A. Binary tree
- B. Binary search tree
- C. Max-heap
- D. Min-heap

Difficulty Level: Easy

Correct Answer: D

Q. No. 136

Question:

Prim's Algorithm is a method available for finding out the minimum cost of a spanning tree . Its time complexity is given by:

### **Answer Choices**

- A. O(n\*n)
- B. O(n log n)
- C. O(n)
  - D. O(1)

Difficulty Level: Easy

Correct Answer: A

Q. No. 137

### Question:

Given two sorted lists of size m and n respectively. The number of comparisons needed in the worst case by the merge sort algorithm will be?

Answer Choices

A. Mn

B. Max(m,n)

- C. Min(m,n)
- D. M+n-1

Difficulty Level: Intermediate

Correct Answer: A

Q. No. 138

Question:

Which of the following sorting algorithm is of priority queue sorting type?

**Answer Choices** 

- A. Bubble sort
- **B.** Insertion Sort
- C. Merge Sort
- D. Selection Sort

Difficulty Level: Easy

Correct Answer: D

Q. No. 139

Question:

Which of the following algorithm design technique is used in the quick sort algorithm? Answer Choices

- A. Dynamic Programming
- B. Backtracking
- C. Divide and Conquer
- D. Greedy Method

Difficulty Level: Easy

Correct Answer: C

Q. No. 140

Question:

What algorithm technique is used to implement Kruskal's solution for minimum spanning tree?

**Answer Choices** 

- A. Greedy Algorithm
- B. Divide and Conquer technique
- C. Dynamic Programming

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D. The algorithm combines more than one of the above techniques.

Difficulty Level: Easy Correct Answer: A

Q. No. 141

### Question:

Which of the following is a limit on inline functions?

**Answer Choices** 

A: Inline functions cannot return a value.

B: Inline functions must return a value.

C: Inline functions must be less than ten lines.

D: The compiler may choose to ignore an inline directive.

Difficulty Level: Intermediate

Q. No. 142

### Question:

Identify the correct sentence regarding inequality between reference and pointer.

**Answer Choices** 

A: We cannot create the array of reference.

B: We can create the Array of reference.

C: We can use reference to reference.

D: None of the above.

Difficulty Level: Easy

Q. No. 143

### Question:

Which keyword is used to access the variable in namespace?

**Answer Choices** 

A: **using** B: dynamic C: Const D: static

Difficulty Level: Easy

Q. No. 144

# Question:

What does an empty class contain?

**Answer Choices** 

A: Default constructor

B: Copy constructor

C: Address of operator

D: All of the above

Difficulty Level: Easy

Q. No. 145

# Question:

Which of the following is not a overloaded function

int sum(int x, int y) { }

**Answer Choices** 

A: int sum(int x, int y, int z) { }
B: float sum(int x, int y) { }

C: int sum(float x, float y) { } D: float sum(int x, int y, float z) { }

Difficulty Level: Intermediate

Q. No. 146

# Question:

Which of the following are false about Constructors?

**Answer Choices** 

# A: A class inherits its constructors from its parent

B: A compiler supplies a default constructor if no constructors are provided for a class

C: All constructors have a void return type

D: A constructor may throw an exception

Difficulty Level: Intermediate

Q. No. 147

# **Question:**

The following example shows that class C derived from classes A & B. Which of them is illegal?

```
Answer Choices
A: Class C: public A, public B
                                                      B: Class C: public A: public B
C: Class C: public A, B
                                                      D: Class C: private A, public B
Difficulty Level: Easy
Q. No. 148
Question:
What is the output of the following
 class Base
 {
      int cNo; char cName[20];
      public:
        void show()
        { cout<<endl<<"Base Class";
 };
 class Derived : public Base
 {
      float dNo;
      public:
        void show()
        { cout<<endl<<"Derived class";}
 };
 void main(){
      Base b1;
      Derived d1;
      b1.show();
      d1.show();
      Base \& b2 = d1;
      b2.show();
      d1.show();
```

**Answer Choices** 

}

A: Error: Cannot convert Base to Derived

B: Base Class

**Derived Class** 

**Base Class** 

**Derived Class** 

C: Base Class

**Derived Class** 

**Derived Class** 

**Base Class** 

D: Base Class

**Derived Class** 

**Derived Class** 

**Derived Class** 

Difficulty Level: Difficult

Q. No. 149

# Question:

Pick out the correct statement.

**Answer Choices** 

A: A derived class's constructor cannot explicitly invokes its base class's constructor.

B: A derived class's destructor cannot invoke its base class's destructor.

C: A derived class's destructor can invoke its base class's destructor.

D: None of the above.

Difficulty Level: Difficult

Q. No. 150

# Question:

What will be the output of following program:

```
#include<iostream.h>
class base
{
public:
    virtual void fun()
    {
        cout<<"In Base::fun()";
    }
    void fun1()</pre>
```

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# Question Bank - OOPS using C++ and Data Structures { fun(); } }; class derived:public base { public: void fun() { cout<<"In derived::fun()"; } }; int main() { derived \*d=new base;

# **Answer Choices**

}

d.fun1();
return 0;

A: Error: a value of type base cannot be used to initialized value of type derived.

B: In derived::fun()

C: In base::fun()

D: Error: Cannot call the method of the base class.

Difficulty Level: Difficult

Q. No. 151

# Question:

What will be the output of following code:

```
1. int testarray[3][2][2] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12};
2. int main(){
3. cout<<testarray[2][0][0] <<" ";
4. cout<<*(*(*(testarray+2)+0)+0);
5. getch();
6. return 0;
7. }</pre>
```

# **Answer Choices**

A: Error illegal operation at line no. 4

B: 9 and address

C: 9 9

D: depends on compiler.

Difficulty Level: Difficult

Q. No. 152

# Question:

```
What does the following do:
void afunction(int *x)
x=new int;
*x=12;
}
int main()
int v=10;
afunction(&v);
cout<<v;
}
Answer Choices
```

A: outputs 12

B: outputs 10

C: Address of v

D: None

Difficulty Level: Difficult

Q. No. 153

# Question:

```
#include<iostream>
#include <fstream>
using namespace std;
int main ()
    ofstream outfile ("test.txt");
    for (int n = 0; n < 100; n++)
        outfile << n;
        outfile.flush();
    cout << "Done";</pre>
    outfile.close();
          getch();
    return 0;
}
```

# **Answer Choices**

A: Error: flush is not defined.

B: Program will print "Done" on screen.

C: No Error, but file will not get created.

D: Text file cannot contain only numbers.

Difficulty Level: Intermediate

Q. No. 154

# Question:

What seekg() function of istream does

**Answer Choices** 

A: It sets the position of the next character to be extracted from the input stream.

B: It returns the next character in the input sequence, without extracting it.

C: It returns the position of the current character in the input stream.

D: seekg() is not a function of istream.

Difficulty Level: Intermediate

Q. No. 155

# Question:

Which keyword can be used in template?

**Answer Choices** 

A: class

B: typename

C: Both A and B

D: function

Difficulty Level: Easy

Q. No. 156

# Question:

What will be the output of following code?

```
#include <iostream>
using namespace std;
template <class T>
T max (T& a, T& b)
    return (a>b?a:b);
}
int main ()
    int i = 5, j = 6, k;
    long l = 10, m = 5, n;
    char ch1='A', ch2='Z',cha;
          k = max(i, j);
          n = max(1, m);
          cha=max(ch1,ch2);
    cout << k <<"
    cout << n <<"
    cout<< cha <<" ";
```

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A: **6 10 Z** B: 5 5 A C: Syntax Error D: 6 10 error

Difficulty Level: Difficult

Q. No. 157

# **Question:**

A ...... is a linear list in which insertions and deletions are made to from either end of the structure.

**Answer Choices** 

A: circular queue B: random of queue

C: priority D: dequeue

Difficulty Level: Easy

Q. No. 158

# Question:

Which of the following operations is performed more efficiently by doubly linked list than by singly linked list?

**Answer Choices** 

A: Deleting a node whose location in given

B: Searching of an unsorted list for a given item

C: Inverting a node after the node with given location

D: Traversing a list to process each node

Difficulty Level: Intermediate

Q. No. 159

# Question:

Linked lists are not suitable for the implementation of?

**Answer Choices** 

A: Insertion sort B: Radix sort

Question Ba	ank – OOPS us	sing C++ and I	Data Structures
C: Polynomial manipulati	on D:	Binary search	
Difficulty Level: Difficult			
Q. No. 160			
Question:			
In circular linked list, inser	tion of node require	es modification of?	
Answer Choices			
A: One pointer	B: '	Two pointers	
C: Three pointers	D:	None	
Difficulty Level: Easy			
Q. No. 161			
Question:			
In worst case, the number	of comparison ne	ed to search a sing	ly linked list of length n for a
given element is			
Answer Choices			
A: log n	B: n/2	C: log2n – 1	D: n
Difficulty Level: Intermedia	ate		
Q. No. 162			
Question:			
Consider linked list is use	d to implement the	Stack then which	of the following node is
considered as Top of the	Stack?		
Answer Choices			
A: <b>First Node</b> B:	Middle Node	C: Last Node	D: Any Node
Difficulty Level: Easy			
Q. No. 163			
Question:			
The depth of complete bir	ary tree is given by	<i>/</i>	

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**Answer Choices** 

A: Dn = n log2n B: Dn= n log2n+1
C: Dn = log2n

D: Dn = log2n+1

Difficulty Level: Difficult

Q. No. 164

# Question:

Sequential representation of binary tree uses .

**Answer Choices** 

A: **Array with pointers** B: Single linear array

C: Two dimentional arrays D: Three dimentional arrays

Difficulty Level: Intermediate

Q. No. 165

# Question:

Which indicates pre-order traversal?

**Answer Choices** 

A: Left sub-tree, Right sub-tree and root

B: Right sub-tree, Left sub-tree and root

C: Root, Left sub-tree, Right sub-tree

D: Right sub-tree, root, Left sub-tree

Difficulty Level: Easy

Q. No. 166

# **Question:**

In a binary tree, certain null entries are replaced by special pointers which point to nodes higher in the tree for efficiency. These special pointers are called ........

**Answer Choices** 

A: Leaf B: Branch C: Thread D: Path

Difficulty Level: Intermediate

Q. No. 167

# Question:

If every node u in G is adjacent to every other node v in G,A graph is said to be .....

**Answer Choices** 

A: isolated B: complete

C: finite D: strongly connected

Difficulty Level: Difficult

Q. No. 168

# Question:

A connected graph T without any cycles is called .

**Answer Choices** 

A: a tree graph B: free tree

C: a tree D: All of the above

Difficulty Level: Intermediate

Q. No. 169

# Question:

The function used to modify the way of sorting the keys of records is called ...

**Answer Choices** 

A: Indexing function B: Hash function

C: Addressing function D: All of the above

Difficulty Level: Intermediate

Q. No. 170

# Question:

A graph is said to be ...... if its edges are assigned data.

**Answer Choices** 

A: Tagged B: Marked C: Labeled D: Stricked

Difficulty Level: Easy

Q. No. 171		
Question:		
Which of the followi	ng sorting algorithm	is of divide and conquer type?
Answer Choices		
A: Bubble sort		B: Insertion sort
C: Quick sort		D: Merge sort
Difficulty Level: Eas	у	
Q. No. 172		
Question:		
The complexity of s	election sort is	
Answer Choices		
A: O(n)	B: <b>O(n2)</b>	C: O(n logn) D: O(logn)
Difficulty Level: Inte	rmediate	
Q. No. 173		
Question:		
Quick sort is also kr	nown as	
Answer Choices		
A: merge sort		B: tree sort
C: shell sort		D: partition and exchange sort
Difficulty Level: Inte	rmediate	
Q. No. 174		
Question:	,	
To apply the binary	search algorithm, the	e data items should be represented as:
Answer Choices		
A: a binary tree		
B: a list implemente	d as a linked-list	
C: a list implemente	d as an array	
D: an ordered list	implemented as an	n arrav

Difficulty Level: Intermediate

Q. No. 175

# Question:

The algorithm which does require fixed amount of storage is

**Answer Choices** 

A: **Heap Sort** B: Quick sort

C: Both of above D: None of the above

Difficulty Level: Intermediate

Q. No. 176

# Question:

A sorting method is said to be stable if

**Answer Choices** 

A: It takes O(n log n) time.

B: It uses divide and conquer strategy.

C: It maintains the relative order of non-distinct elements.

D: It takes less than O(n^2) time.

Difficulty Level: Difficult

Q. No. 177

# Question:

Efficient algorithm requires less computational.....

**Answer Choices** 

A: Memory B: Running Time

C: **Memory and Running Time** D: Energy

Difficulty Level: Difficult

Q. No. 178

# Question:

The brute-force algorithm for solving the Traveling Salesman Problem is

**Answer Choices** 

A: an approximate and efficient algorithm.

B: an approximate and inefficient algorithm.

C: an optimal and inefficient algorithm.

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D: an optimal and efficient algorithm.

Difficulty Level: Diffi	icult		
Q. No. 179			
Question:			
What will be the total	al number of max co	mparisons if we run	brute-force maxima algorithm
with n elements?			
Answer Choices			
A: <b>n</b> <sup>2</sup>	B: 2n/n	C: n	D: 8n
Difficulty Level: Inte	rmediate		
Q. No. 180			
Question:			
Which of the followi	ng algorithm design	technique is used in	the quick sort algorithm?
Answer Choices			
A: Dynamic Program	nming	B: Backtracking	
C: Divide and conque		D: Greedy Method	
Q. No. 181			
Question:			
Identify the correct	statement.		
Answer Choices			
B: Namespace is us	used to group class sed to mark the beging sed to seperate the cove	nning of the program	
Q. No. 182			
Question:			

What happens when a class with parameterized constructors and having no default constructor is used in a program and we create an object that needs a zero-argument constructor?

**Answer Choices** 

A: Compile-time error.

B: Preprocessing error

C: Runtime error

D: Runtime exception

Q. No. 183

### Question:

```
What is the output of the following code?

#include<iostream.h>

void main()
{

int a = 20,b=100;

int &n = a;

n=a++;

n = &b;

cout<<a <<" ,"<<n<<endl;
}
```

# **Answer Choices**

A: 21, 21

B: Error

C: 21, 22

D: 20,21

Q. No. 184

# Question:

Copy constructor must receive its arguments by?

# **Answer Choices**

A: either pass-by-value or pass-by-reference

B: only pass-by-value

C: only pass-by-reference

D: only pass by address

Q. No. 185

# Question:

**Answer Choices** 

A suitable place to store Class declarations is \_\_\_\_\_.

A: None of these

B: Their own header files

C: Auxiliary .cpp file

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D: main .cpp files, along with function definitions

Q. No. 186

# Question:

**Answer Choices** 

Override is a method...?

A: For an operation that replaces an inherited method for the same operation

B: For a data that replaces an inherited method for the same operation

C: For an operation that takes argument from library function

D: None of these

Q. No. 187

### Question:

The ability to reuse objects already defined, perhaps for a different purpose, with modification appropriate to the new purpose, is referred to as

# **Answer Choices**

A: Overloading. B: Redefinition. C: Inheritance. D: Information hiding.

Q. No. 188

# Question:

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

# **Answer Choices**

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

Q. No. 189

# Question:

What do you think is the outcome of calling a redefined non-virtual function using a base-class pointer?

### **Answer Choices**

- A: The appropriate redefined version of the function will be used.
- B: A run-time error will occur.
- C: The base-class version of the function will always be used.
- D: The outcome is unpredictable.

Q. No. 190

# Question:

Pure virtual functions

### **Answer Choices**

- A: have to be redefined in the inherited class.
- B: cannot have public access specification.
- C: Are mandatory for virtual class.
- D: None of the above.

Q. No. 191

# Question:

Function templates can accept

# **Answer Choices**

A: any type of parameters.

B: Only one parameter.

C: Only parameters of the basic type

D: Only parameters of the derived type

Q. No. 192

# **Question:**

Which of the following statement is valid?

# **Answer Choices**

A: We can create new C++ operators.

B: We can change the precedence of the C++ operators.

C: We can change the associativity of the C++ operators.

D: We can not change operator templates.

Q. No. 193

# Question:

To which type of class, We can apply RTTI?

# **Answer Choices**

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A: Encapsulation.

B: Polymorphic.

C: Derived.

D: None of the above.

Q. No. 194

# Question:

Which of the STL containers store the elements contiguously(in adjacent memory locations)?

# **Answer Choices**

A: Std :: vector

B: Std :: list

C: Std::map

D: Std :: set

Q. No. 195

# Question:

If the sequence of operations – push(1),push(2),pop,push(1),push(2),pop,pop,pop,pop,pop,pop,pop,pop are performed on a stack, the sequence of popped out values are?

# **Answer Choices**

A: 2, 2, 1, 1, 2.

B: 2.2.1.2.2

C: 2, 1, 2, 2, 1

D: 2, 1, 2, 2, 2

Q. No. 196

# Question:

Queue can be used to implement?

# **Answer Choices**

A: Recursion

B: Quick sort

C: Radix sort

D: Depth first search

Q. No. 197

# Question:

Consider a class List that implements an unordered list. Suppose it has as its representation a singly linked list with a head and tail pointer (i.e., pointers to the first and last nodes in the list). Given that representation, which of the following operations could be implemented in O(1) time?

- I) Insert item at the front of the list
- II) Insert item at the rear of the list
- III) Delete front item from list
- IV) Delete rear item from list

# **Answer Choices**

# Question Bank - OOPS using C++ and Data Structures A· I and II B. I and III C: I, II and IV D: I,II and III Q. No. 198 Question: Linked lists are not used in **Answer Choices** A: OS C: Compiler D: None B: Linker Q. No. 199 Question: The number of binary trees with 3 nodes which when traversed in post order gives the sequence A, B, C is? **Answer Choices** C: 7 A: 3 B: **5** Q. No. 200 Question: A binary tree that has n leaf nodes. The number of nodes of degree 2 in this tree is ? **Answer Choices** C: n D: 2<sup>n</sup> A: n-1 B: log<sub>2</sub> n Q. No. 201 Question: In a binary tree, certain null entries are replaced by special pointers which point to nodes higher in the tree for efficiency. These special pointers are called **Answer Choices**

A: Leaf B: Branch C: Path D: **Thread** 

Q. No. 202

### Question:

In a binary tree whose every node has either zero or two children is called

**Answer Choices** 

A: Complete binary treeB: Binary search tree

C: Extended binary tree

D: None of the above

Q. No. 203

# Question:

Searching Techniques in Ghraph are

**Answer Choices** 

A: Breadth-last Search & Depth- first Search

**B:** Breadth-first Search & Depth- first Search

C: Depth- last Search & Breadth-first Search

D: Breadth-last Search & Depth-last Search

Q. No. 204

# Question:

In a graph if e=[u, v], Then u and v are called

**Answer Choices** 

A: Endpoints of e C: Neighbors B: Adjacent nodes D: All of above

Q. No. 205

# Question:

Assuming that the hash function for a table works well, and the size of the hash table is reasonably large compared to the number of items in the table, the expected (average) time needed to find an item in a hash table containing n items is

**Answer Choices** 

A: **O(1)** B: O

B: O(log n)

C: O(n log n)

D: O(√n)

Q. No. 206

# Question:

The average search time of hashing with linear probing will be less if the load factor?

**Answer Choices** 

# A: Is far less than one

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B: Equals one

C: Is far greater than one

D: None of the above

Q. No. 207

# Question:

One of the following algorithms is NOT an example of using the divide-and-conquer technique

# **Answer Choices**

A: Quick sort

B: Bubble Sort

C: Merge sort

D: Binary Search

Q. No. 208

# Question:

A machine took 200 sec to sort 200 names, using bubble sort. In 800 sec, it can approximately sort?

# **Answer Choices**

A: 400 names B: 800 names C: 750 names

D: 800 names

Q. No. 209

# Question:

Suppose we need to sort a list of employee records in ascending order, using the social security number (a 9-digit number) as the key (i.e., sort the records by social security number). If we need to guarantee that the running time will be no worse than n log n, which sorting methods could we use?

# **Answer Choices**

A: Quick sort

**B**: Insertion

C: Merge sort

D: Either merge sort or quick sort

Q. No. 210

# Question:

What is the time complexity of merge sort in best case?

# **Answer Choices**

A: O(n^2)

B: O(n)

C: O(n+2<sup>k</sup>)

D: **O(n.log n)** 

Q. No. 211

# Question:

Which of the following is not the required condition for binary search algorithm?

### **Answer Choices**

A: The list must be sorted

B: there should be the direct access to the middle element in any sub list

C: There must be mechanism to delete and/or insert elements in list

D: none of above

Q. No. 212

### Question:

Binary search algorithm cannot be applied to

**Answer Choices** 

A: sorted linked list B: sorted binary trees

C: sorted linear array D: pointer array

Q. No. 213

# Question:

The benefits of object-oriented modeling are which of the following?

# **Answer Choices**

A: The ability to tackle more challenging problems

B: Reusability of analysis, design and programming result

C: Improved communication between users, analysts etc

D: All of the above

Q. No. 214

# Question:

Composition is a stronger form of which of the following?

**Answer Choices** 

A: **Aggregation** B: Encapsulation

C: Inheritance D: All of the above

Infoway Technologies Pvt. Ltd., Pune Contact No.: 020-41312111/12 Website: www.infowayltd.com Page 88 of 103

Question bank OOI 8 daing C.		
Q.No.215 The phenomenon where the object outlives the program execution time and exists between executions of a program is known as.	A. Global Object B. Persistent Object C. Genericity D. Delegation	В
Q.No.216 What is the output of the following code? #include <iostream.h> #include<string.h> void main() {</string.h></iostream.h>	A. 14 B. 13 C. 12 D. None	Α
cout< <strlen("hello, )<<"="" ;="" \n"="" td="" world.\n"="" }<=""><td></td><td></td></strlen("hello,>		
Q.No.217 Object-Oriented Programming Language supports	A. Inheritance B. Polymorphism C. Encapsulation D. All of the above	D
Q.No.218 What is the output of the following code? #include <iostream.h> void main() {</iostream.h>	A. 123 B. Compile time error C. None D. Run time Error	В
/* this is /* an example */ of nested comment */ cout<<123< <endl; td="" }<=""><td></td><td></td></endl;>		
Q.No.219 Abstraction is crucial to understanding	A. Class B. Application C. Object D. Control flow	С
Q.No.220 What is the output of the following code? #include <iostream.h> void main() { cout &lt;&lt; ; }</iostream.h>	A. 1 B. Compile time error C. NIL D. None	В
Q.No.221 Object oriented design decomposes a system into	A. Classes B. Objects C. Structures D. Methods	В
Q.No.222 What is the output of the following code? #include <iostream.h> void main() { int a = 20;</iostream.h>	A. 20, 20 B. 20, 21 C. 21, 22 D. None	D

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Question bank - OOPS using C+	· and Data Struct	uics
int &n = a; n=a++; a=n++; cout< <a ,"<<n<<endl;<br="" <<"="">}</a>		
Q.No.223 If a class member function is declared a const, the function	A. Does not change the value of any data member of that class B. Does not change the value of any data member of implied object C. Does not change the value of any data member of that class D. All of the above	В
Q.No.224 What is the output of the following code? #include <iostream.h> void main(){ int a = 20,b=100; int &amp;n = a; n=a++; n = &amp;b cout&lt;<a ,"<<n<<endl;="" <<"="" td="" }<=""><td>A. 21, 21 B. 20, 21 C. 21, 22 D. Error</td><td>D</td></a></iostream.h>	A. 21, 21 B. 20, 21 C. 21, 22 D. Error	D
Q.No.225 What is the output of the program?  #include <stdio.h> float cal (float value){     return (3 * value);     }  void main(){     int a = 10;     float b = cal ("123");     }</stdio.h>	A. 369 B. 123 C. Compilation error D. None of the above	С
Q.No.226 What is the output of the following code? #include <iostream.h> void main() { bool a=10; cout&lt;<a<<endl; td="" }<=""><td>A. 10 B. false C. 1 D. Error</td><td>С</td></a<<endl;></iostream.h>	A. 10 B. false C. 1 D. Error	С
Q.No.227 The act of grouping into a single object, both data and the operation that affect that data is known as	A. Encapsulation B. Inheritance C. Abstraction D. None of the above	Α

Question bank - OOPS using C+	•	ures
Q.No.228 What is the output of the following code? #include <iostream.h> void main() { int main; main = 100; cout&lt;<main++<<endl; td="" }<=""><td>A. 101 B. 100 C. None D. Error: one cannot use main as identifier</td><td>В</td></main++<<endl;></iostream.h>	A. 101 B. 100 C. None D. Error: one cannot use main as identifier	В
Q.No.230 What is the output of the following code?  #include <iostream.h> void main() { int a=0,x; x = ++a *a; cout&lt;&lt;++a&lt;&lt; " " &lt;&lt; a++ &lt;&lt; " " &lt;&lt; x &lt;<endl; td="" }<=""><td>A. It is a region of storage. B. It defines a data type. C. It is exactly same as a struct in c. D. All of the above. A. 0, 0, 0 B. 2, 0, 0 C. 2, 2, 2 D. 3, 2, 2</td><td>В</td></endl;></iostream.h>	A. It is a region of storage. B. It defines a data type. C. It is exactly same as a struct in c. D. All of the above. A. 0, 0, 0 B. 2, 0, 0 C. 2, 2, 2 D. 3, 2, 2	В
Q.No.231 What is the output of the program?  #include <iostream.h>  void main () {   for(int j = 1, sum = 0; j &lt; 5; j++)     sum += j;   sum = j;   cout &lt;&lt; sum; }</iostream.h>	A. 5 B. 10 C. Compilation error: Undefined variable sum and j D. 6	A
Q.No.232 What is the output of the following code? #include <iostream.h> void main() {     a=32;     cout&lt;<a<<endl; a;="" int="" td="" }<=""><td>A. 32 B. 0 C. Compile time error D. Run time error</td><td>С</td></a<<endl;></iostream.h>	A. 32 B. 0 C. Compile time error D. Run time error	С
Q.No.233 Which one supports unknown data types in a single framework?	A. Inheritance B. Virtual functions C. Templates D. Abstract Base Class	С

Question Bank - OOPS using C+		ures
Q.No.234 Which of the following is not valid expression?	A. 33 / 9 / 3 B. 23 % ( 5 % 2 ) C. 34 ( 7 / 3 ) D. None	С
Q.No.235 Which one of the following statement represents inheritance in C++?	A. class car : public vehicle B. class car extends vehicle C. public class car extends vehicle D. class car inherits vehicle	A
Q.No.236 Evaluate the m%n++ expression, assuming m=24 and n=7	A. 4 B. 3 C. 2 D. None	В
Q.No.237 Which of the following keyword supports dynamic method resolution in C++?	A. abstract B. Virtual C. Dynamic D. Typeid	В
Q.No.238 Evaluate the m%++n expression, assuming m=24 and n=7	A. 4 B. 3 C. 2 D. None	D
Q.No.239 Which of the following statements is not correct?	A. You can create new operators like \$ or @ B. You cannot change an operator's template C. Operators can only be overloaded when used with abstract data class D. Unary operators overloaded by means of a member functions takes no explicit arguments and return no explicit values	A

Question bank cors asing c	three 2 true 2 true t	<b>312 0</b> 5
Q.No.240 Which of the following statement is true?	A. !(p    q ) is the same as !p    !q B. !!!p is the same as !p C. p && q    r is the same as p && (q    r ) D. None	В
Q.No.241 Which of the following is false about struct and class in C++?	A. The members and base classes of a struct are public by default, while in class, they are private by default B. Struct and class are otherwise functionally equivalent C. A class supports all the access specifiers like private, protected and public D. A struct cannot have protected access specifier	D
Q.No.242 Elements in an array are identified by a unique	A. symbol B. order C. subscript D. data type	С
Q.No.243 The keyword <i>protected</i> is frequently used  Q.No.244 An address is a, while a pointer is a	A. For function overloading B. For protecting data C. For inheritance D. For security purpose A. variable, location B. variable, position	C
O No 245 Abstract base class is one, which has	C. constant, variable D. None	В
Q.No.245 Abstract base class is one, which has A.	A. All pure virtual functions B. At least one pure virtual function C. Functions with abstract keyword D. No pure virtual functions	ט

Question Bank - OOPS using C+		
Q.No.246	A. string literal	С
6.5 is a constant.	B. float literal	
	C. double literal	
	D. character literal	
Q.No.247 What is exception handling?	A. Errors which occur	Α
	at runtime	
	B. When abnormal	
	situation arises at	
	compile time	
	C. When errors occur	
	at link time	
	D. None of the above	
Q.No.248 To execute a C++ program, one first need	A. translating	С
to translate the source code into object code. This	B. sourcing	
process if	C. compiling	
called	D. coding	
Q.No.249 What is the output of the program?	A. 75	Α
Q. 10.270 What is the output of the program:	B. Error - Undefined	, · ·
#include <iostream.h></iostream.h>	symbol max_func	
inline int max(int x, int y)	C. 33	
{	D. None of the above	
return(x > y ? x : y);		
}		
1		
void main()		
{		
int(* max_func)(int,int)=max;		
cout << max_func(75,33);		
}		
Q.No.250 What is wrong with the following program?	A. There is nothing	С
#include <iostream.h></iostream.h>	wrong in the	
void main(){	program.	
do	B. Variable 'b' must	
{ `	not be initialized in	
int b=0;	the loop	
cout< b;	C. Variable 'b' must	
b++;	not be declared in	
}while(b!=10);	the loop	
}	D. The condition for	
	while loop is not valid	
Q.No.251 Which of following is not a member of a	A. static function	D
class?	B. const function	
	C. virtual function	
	D. friend function	
O No OFO Conding		
Q.No.252 Sending a copy of data to a program	A. recursion	С
module is called	B. passing a	
	reference	
	C. passing a value	
	D. None	

Question bank - OOF5 using C+	· and Data Struct	urcs
Q.No.253 Which of the following is a correct statement?  Q.No.254 Each generic type in a template function	A. Abstract class object can be created B. Pointer to abstract class can be created C. Reference to abstract class can be created D. Both B and C A. class	A
definition is preceded by the keyword	B. type C. function D. template	
Q.No.255 What does an empty class contain?	A. Default constructor B. Copy constructor C. Address of operator D. All of the above	D
Q.No.256 Which of the followings is not a C++ opoerator?	A. ^= B* C. &= D>>	D
Q.No.257 In protected derivation	A. Protected and public members of base class become protected B. Private, protected and public members of base class become protected C. Private, protected and public members of base class become private D. Protected and public members of base class become private private	A
Q.No.258 What is the output of the following code? #include <iostream.h> void main() { char p[]="This is a test"; cout&lt;<sizeof(p)<<","<<strlen(p);< td=""><td>public members of base class become protected B. Private, protected and public members of base class become protected C. Private, protected and public members of base class become private D. Protected and public members of base class become</td><td>В</td></sizeof(p)<<","<<strlen(p);<></iostream.h>	public members of base class become protected B. Private, protected and public members of base class become protected C. Private, protected and public members of base class become private D. Protected and public members of base class become	В

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· and Data Struct	
A. 20 30 20 ++ 20 30 30 ++ 30 30 30 30	D
B. 20 30 20 ++ 30 30 30 ++ 20 30 30 30	
C. 20 30 20 ++ 20 30 30 ++ 20 30 30 30	
D. 20 30 20 ++ 30 30	
30 ++ 30 30 30 30	
A. Array 'a' is not initialized properly B. There is no problem C. Redeclaration of variable 'i' D. There is a run time error	C
A. Class istream: public ios B. Class istream: public virtual ios C. Class istream: public iostream D. Class istream: public virtual iostream	В
A. 100,2,3,22,400 B. garbage values C. error	С
D. NOTIC	
A. 0 bytes B. 2 bytes C. 1 byte	С
	A. 20 30 20 ++ 20 30 30 ++ 30 30 30 30 SO

	+ and Data Struct	
Q.No.264 What is the output of the following code? #include <iostream.h> void main(){ int a[5] = {1,2,3}; for(int i=0;i&lt;5;i++) cout&lt;<a[i]<<endl; td="" }<=""><td>A. No output B. 1 2 3 garbage garbage C. 1 2 3 0 0 D. There is a run time error</td><td>С</td></a[i]<<endl;></iostream.h>	A. No output B. 1 2 3 garbage garbage C. 1 2 3 0 0 D. There is a run time error	С
Q.No.265 The advantage of defining a pure virtual member function in a class is	A. Derived class may implement the pure virtual function B. Derived class must implement the pure virtual function C. Derive class is abstract class if it does not implement the pure virtual function D. Both B and C	D
Q.No.266 To delete a dynamically allocated array named 'a', the correct statement is	A. delete a; B. delete a[0]; C. delete []a; D. delete [0]a;	С
Q.No.267 What is the output of the following?  #include void main() {   int x, y;	A. Compilation Error B. 3 5 C. 3 3 D. 5 3	D
x=(3, 4, 5); y=3, 4, 5; cout << endl << x <<" "<< y;		
y=3, 4, 5;	A. total=9; B. name="OBJECT"; C. profit=123.123; D. A='A';	В

Question Bank - OOPS using C+		uics
Q.No.271 When do preprocessor directives execute?	A. Before the compiler compiler compiles the program. B. After the compiler compiles the program. C. At the same time as the compiler compiles the program. D. None	А
Q.No.272 What is the output of the following? #include <iostream.h> void main () {     cout &lt;&lt; (cout&lt;&lt;" Hello ") &lt;&lt; " world "; }</iostream.h>	A. No output is displayed B. Hello some_address_value world C. Hello world D. compilation error	В
Q.No.273 What is the output of the following code? #include <iostream.h> void main() { int i=5,j=0; while(i    j++) { cout&lt;<i<<" "<<j<<"="" ,"="" ;="" td="" }="" }<=""><td>A. 5 1, 4 2, 3 3, 2 4, 1 5 B. 4 0, 3 0, 2 0, 1 0, 0 0 C. 4 1, 3 2, 2 3, 1 4, 0 5 D. None</td><td>В</td></i<<"></iostream.h>	A. 5 1, 4 2, 3 3, 2 4, 1 5 B. 4 0, 3 0, 2 0, 1 0, 0 0 C. 4 1, 3 2, 2 3, 1 4, 0 5 D. None	В
Q.No.274 The class fstreambuf serves as base class for	A. ifstream, ofstream, fstream B. ifstream, ofstream C. ostream D. ifstream	А
Q.No.275 What is the output of the following code? #include <iostream.h> void main(){ int a; bool b; a = 12 &gt; 100; b = 12 &gt;= 100; cout&lt;<a<<" "<<b<<endl;="" td="" }<=""><td>A. Error B. 0 false C. 0 1 D. 0 0</td><td>D</td></a<<"></iostream.h>	A. Error B. 0 false C. 0 1 D. 0 0	D
Q.No.276 The scope resolution operator permits	A. Access to an identifier in the global scope that has been hidden by another identifier with the same name in the	A

Question Bank - OOPS using C+	· and Data Struct	uies
Q.No.277 What is the output of the following code? #include <iostream.h> int a = 1; void main(){ int a = 100; { int a = 200; { int a = 300; cout&lt;<a<","; cout<<a<",";="" cout<<a<<",";="" td="" }="" }<=""><td>local scope B. Access to an identifier in the global space C. Access to an identifier in the local scope D. Access to an identifier in the local scope and global scope A. Error B. 100, 200, 300, 100, C. 300, 200, 100, C. 300, 200, 100, garbage, D. 300, 200, 100, 1,</td><td>D</td></a<",";></iostream.h>	local scope B. Access to an identifier in the global space C. Access to an identifier in the local scope D. Access to an identifier in the local scope and global scope A. Error B. 100, 200, 300, 100, C. 300, 200, 100, C. 300, 200, 100, garbage, D. 300, 200, 100, 1,	D
Q.No.278 What is the output of the program? #include <iostream.h> void main() {   int val = 5;   int &amp;val1 = val;   int &amp;val2   cout &lt;&lt; val1;</iostream.h>	A. 5 B. val2 - references must be initialized C. Address of variable val is printed D. None of the above	В
Q.No.279 What is the output of the following code? #include <iostream.h> void main() { int x=10; (x&lt;0)?(int a =100):(int a =1000); cout&lt;<a; td="" }<=""><td>A. Error B. 1000 C. 100 D. None</td><td>A</td></a;></iostream.h>	A. Error B. 1000 C. 100 D. None	A
Q.No.280 The technique of allocating memory during runtime on demand is known as	A. Dynamic binding B. Dynamic memory allocation C. Late binding	С

Question bank - OOF5 using C+	j-	<u> </u>
	D. Template	
Q.No.281 What is the output of the following code?	A. 0	D
#include <iostream.h> void main()</iostream.h>	B. 1 C. Compile Time	
{	error	
int a = 0;	D. Runtime Error	
cout<<(a = 10/a); }		
Q.No.282 What is the output of the following code?	A. 1 2 3 10	В
void main(){	B. Infinite loop	
int i=1; while(i<=10);	C. 10	
write(1×-10), {	D. 1 2 39	
cout< <i;< td=""><td></td><td></td></i;<>		
i++;		
}		
Q.No.283 What is the output of the following code?	A. 1 2 3 4 5	В
#include <iostream.h></iostream.h>	B. 2 4 6 8 10	
void main() {	C. Compile Time error	
int x=0;	D. Runtime Error	
while(x++<5)		
{ static x;		
x+=2;		
cout< <x<<" ";<="" td=""><td></td><td></td></x<<">		
Q.No.284 The advantage of defining a pure virtual	A. Derived class may	D
member function in a class is	implement the pure	
	virtual function	
	B. Derived class must implement the	
	pure virtual function	
	C. Derive class is	
	abstract class if it does not implement	
	the pure virtual	
	function	
Q.No.285 What is the output of the following code?	D. Both B and C  A. Both the string are	В
#include <iostream.h></iostream.h>	same	
void main()	B. Both the string are	
{ char str1[]="India" str2[]="India":	not same	
char str1[]=" India" , str2[]=" India" ;	C. Compile Time	

Question Bank - OOPS using C+	+ and Data Struct	ures
<pre>if(str1==str2) cout&lt;&lt;"Both the string are same"; else cout&lt;&lt;"Both the string are not same"; }</pre>	error D. Runtime Error	
Q.No.286 Input and output operators are known as	A. extraction and insertion B. get from and put to C. Both A and B D. None of the above	С
Q.No.287 What is the output of the following code if user enters "This is a test"? #include <iostream.h> #include<string.h> void main() { char str[8]; cin&gt;&gt;str; cout&lt;<str; td="" }<=""><td>A. This is a test B. This is a C. This D. Error</td><td>C</td></str;></string.h></iostream.h>	A. This is a test B. This is a C. This D. Error	C
Q.No.288 A file can be tied to your program by defining an instance of  Q.No.289 What is the output of the following code?	A. fstream B. ifstream C. ofstream D. All of the above A. 10 20	D B
#include <iostream.h> void main(){ int arr[] = {10,20,30,40,50}; int *ptr = arr; cout&lt;&lt; *ptr++&lt;&lt;" "&lt;&lt;*ptr; }</iostream.h>	B. 10 10 C. 20 20 D. 20 10	
Q.No.290 Which of the following is not true about constructor?	A. constructor can be overloaded B. constructor return type is int C. constructor has the same name as the class in which it is defined D. constructor are used for initializing data members	В
Q.No.291 What is the output of the following code? #include <iostream.h> void main() { int arr[] = {10,20,30,40,50}; int x,*ptr1 = arr, *ptr2=&amp;arr[3];</iostream.h>	A. 6 B. 3 C. Compile Time error D. Runtime Error	В

```
x = ptr2 - ptr1:
cout<<x;
Q.No.292 What is the output of the program?
                                                                               D
                                                        A. g
                                                        B. genesis
  #include <iostream.h>
  char *buf1 = "Genesis", *buf2 = "InSoft";
                                                        C. No ouput is
                                                        displayed
  void main()
                                                       D. I-value specifies
     const char *p = buf1;
                                                       constant object
     p = buf2;
     *p = 'g';
    cout << *p;
What is the output of the program?
Q.No.293 Which of the following statement is false
                                                       A. The ++ and --
about pointers?
                                                       operators may be
                                                       used with pointer
                                                       variables
                                                        B. An integer may
                                                        be added and
                                                        subtracted from a
                                                        pointer variable
                                                        C. A pointer may be
                                                        added to another
                                                       pointer.
                                                       D. A pointer may be
                                                        subtracted from
                                                       another pointer.
Q.No.294 A null pointer is a pointer that contains
                                                       A. the address 0
                                                                               Α
                                                       B. the address that
                                                       points to 0
                                                        C. the address that
                                                       points to '\0'
                                                        D. the address that
                                                       points to -1
Q.No.295 What is the output of the program?
                                                       A. Compilation error
                                                                               С
  #include <iostream.h>
                                                       B. 10
                                                       C. 40
  class test
                                                        D. None of the above
     int x;
     public:
       test(int y)
          x = y;
       int getX()
          int x = 40;
```

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```
return this->x;
}

void main()
{
    test a(10);
    cout << a.getX();
}
```





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