

PG DAC Feb 20 Oops with C++ Question Bank

C++

Contents

Basic		1
Enhancements		2
Oops		52
Operator Overloading		63
Inheritance		66
Late Binding		80
File Handling		91
Templates		92
Exception		93
	Basic	
1) A relational operator a) assigns one operand to another c) Logically combines two operands 2) The Library function swit() causes an exit from		b) Compares two operands d) assigns value to a operand
2) The Library function exit() causes an exit froma) the loop in which it occursc) the function in which it occurs		b) the block in which it occurs d) The program in which it occurs
3) The && and operators a) compare two numeric values c) compare two Boolean values		b) combine two numeric values d) combine two Boolean values
4) The goto statement causes control to go to a) an operator b) a label	c) a variable	d) a function
5) The break statement cause an exita) only from the innermost loopc) from all loops and switches		b) only from the innermost switch d) from the innermost loop or switch
6) A structure brings together a group of a) items of same data type	b) related da	ta items

- c) integers with user-defined names
- d) constant values

- 7) A functions argument is
- a) a variable in the function that receives a value from the calling program
- b) a reference value returned by the function
- c) a value sent to function by the calling program
- d) a value returned by the function to the calling program
- 8) When an argument is passed by reference

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- a) a variable is created in the function to hold the arguments value
- b) the function cannot access the arguments value
- c) a temporary variable is created in the calling program to hold the arguments value
- d) the function accesses the arguments original value in the calling program
- 10) When an argument is passed by reference
- a) A variable is created in the function to hold the arguments value
- b) The function cannot access the argument value
- c) A temporary variable is created in the calling program to hold the argument value
- d) The function accesses the argument original value in the calling program
- 11) Which among the following is an exit controlled loop
 - a) if

- b) do-while
- c) while
- d) for
- 12) What will be the storage class of variable in the following code int main()

```
int i=1;
cout<<i;
return 0;
}
```

- a) Automatic storage class
- c) Static storage class

- b) External storage class
- d) Register storage class

Enhancements

```
1) What is the output?
  const int a=124;
  void main()
{
        const int* sample();
      int * const p=sample();
      cout<<*p;
}
  const int* sample()
      { return (&a);
}</pre>
```

- b) compilation error c) output "124"
- d) garbage value

2) What is the output? #include<iostream.h>

a) Warning



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```
void accept(int x,int y)
               cout<<"in value method\n";
    void accept(int &p,int &q)
               cout<<"in referece method\n";
    void main()
     Int a=20,b=30;
               accept(a,b);
    }
       a) output "in reference method
                                                                           b) compilation error
       c) output "in value method in reference method"
                                                                           d) output "in value method"
3) What is the output?
void fun(int ptr2)
               ptr2=30;
}
void main()
               int num=10;
               fun(num);
               cout<<num<<endl;
               getch();
}
a) 10
                b) garbage value
                                             c) it will not compile
                                                                                  d) 30
4) What is the output?
void main()
       int* getAr();
        int *ptr;
        ptr=getAr();
        cout<<ptr[2]<<endl;
        getch();
int* getAr()
{
        int arr[4]={10,20,30,40};
        return arr;
} a) 20
                      b) 30
                                             c) it will not compile
                                                                           d) warning
5) In case of command line arguments main accepts following two arguments.
a) int argc, char *argv
                                                    b) char argv,int argc
c) int argc,char *argv[]
                                                    d) char *argv,int *argc
6) It is legal to return local variables from a function, through reference.
```

b) False

a) True

3



```
In C++ one can define a function within another function
7)
    a) True
                                    b) False
       In C++ an identifier can begin with a $ sign
8)
    a) True
                                    b) False
9)
       What is the output? #include<iostream.h>
                                                         int a = 1;
       void main()
         int a = 100;
              int b = 200;
       int a = 300;
                   cout<<a<<",";
         cout<<a<<",";
 cout<<a<<",";
                                    c) 300 100
                                                  100
                                                                        100 garbage
a) 100 300
              100
                    b) Error
                                                                 d) 300
10) What will happen to following code?
struct emp
{
       char name[20];
};
void main()
emp e1={"abc"};
                     emp
e2=e1;
       cout<<e2.name<<en
dl;
       getch();
}
 a) warning
                                    b) compiler error "can not initialize e2 with e1"
c) output "abc"
                                    d) garbage
11) Which statement will print the value of num?
struct mystruct
{
int *k;
};
void main()
int num=200;
mystruct *ptr=new mystruct;
ptr->k=# //
here
getch();
```



```
a) *(*ptr).k or *ptr->k
                                     b) *ptr.k
                                                           c) ptr->k
                                                                                  d) ptr->*k
12) The ______ operator allows conversion between nonstandard types.
                              b) const cast
                                                    c) static cast
                                                                           d) None of the above
 a) reinterpret_cast
13) *p++;
a) increments value
                              b) increments address
                                                                   c) Error
                                                                                  d) None
14) The statements
int a=5;
cout<<"First"<<(a<<2)<<"Second"; Output will be
   a) First52Second
                             b) First20Second
                                                           c) Second25First
                                                                                  d) An error message.
15) The following program segment int a =10; int const &b=a; a=11
   printf("%d%d",a,b);
   a) Results in compile time error
                                                b) Results in run time error
                                                d) None of the above.
   c) 11 11
16) What will be the output?
#include<iostream.h>
void main()
{
int a,*pa,&ra;
    pa=&a; ra=a;
 cout<<"a="<<a<<"pa="<<pa<<"ra"<<ra;
                                                    c) will display correct output d) none of the above
 a) compile time error
                              b) runtime error
17) What is the output?
       #include<iostream.h>
       void main()
       {
               int arr[2][3][2]={{{2,4},{4,8},{3,4},},{{2,2},{2,3},{3,4},}};
               cout<<**(*arr+1)+2+7;
a) 7
               b) 13
                                     c) 16
                                                           d) Error
18) What is the output? void main()
       {
               int arr[2][3][2] = \{\{\{2,4\},\{4,8\},\{3,4\},\},\{\{2,2\},\{2,3\},\{3,4\},\}\};
               cout<<***(arr+1)+5+4;
       }
a) 12
               b) 25
                                     c) 11
                                                            d) None of these
Explanation:
    ***(arr+1)+5+4
    Solve *(arr+1), this is equivalent to arr[1] i.e. base address of second dd array.
    Add one more *, u will get address of first one d array represented by second dd array.
    Add one more *, u will get an element of first one d array represented by second dd array i.e. 2
    Now
    2+5+4
    i.e. 11.
```



```
19) 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()"?
                       b) 30
                                             c) 24
                                                                    d) 12
  a) 15
  20) Inline functions are replaced at function call
     at the time of
                                                     c) compiletime
   a) preprocessing
                               b) runtime
                                                                                    d) unpredictable
  21) what is the output? #include<stdio.h>
    void main()
    {
        int x=4;
        printf("%d",printf("%d%d",x,x));
                                             c) 2,2,4
                                                                    d) compile time error
a) Garbage
                      b) 4,4,2
  22) consider following code
     #include<iostream.h>
         void main()
         in
         t
         i,j
         for(i=0;i<2;i++)
               for(j=0;j<3;j++)
                       if(i==j)
                              continue;
                       cout<<"i="<<i<"j="<<j<<endl;
               }
         }
    For which values of i and j the above code will not give any output ?
       a) i=1 j=0
                              b) i=0 j=0
                                                     c) i=0 j=2
                                                                            d) i=0 j=1
```



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```
23) Consider the following code.
    #include<iostream.h>
    #include<string.h>
    #include<stdlib.h>
    void ReadInput(int DataType,void *address)
    {
               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;
               }
    void main()
               float x;
       cout<<"\nEnter number\n";</pre>
       ReadInput(2,&x);
              cout<<"\nsquare=" <<x*x;
    What would be output if input provided is 12.5
       a) 156.25
                                                    b) compile time error. Cannot convert from float to int
       c) 144
                                                    d) none of the above.
    24) what is the output?
    #include<iostream.h>
    void main()
       int a=20;
       int &n=a;
       n=a++;
       a=n++;
               cout<<a<<"\t"<<n<<endl;
                             b) 20 21
    a) 20 20
                                                   c) 21 22
                                                                          d) 22 22
25) what is the output? #include<iostream.h>
void main()
    int arr[]={10,20,30,40,50};
    int x,*ptr1=arr,*ptr2=&arr[3];
```

x=ptr2-ptr1;



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```
cout<<x<<endl;
    }
    a) 6
                     b) 3
                                    c) compile time error
                                                                  d)runtime error
26) what is the output? #include<iostream.h>
void main()
{
    int a=20,b=100; int &n=a; n=a++;
    n=&b;
       cout<<a<<"\t"<<n<<endl;
                                                                                d) Error
    a) 20 21
                             b) 21 20
                                                  c) 21 22
 27) in case of command line arguments main accepts following two arguments.
       a) int argc,char *argv
                                                  b) char argv,int argc
       c) int argc,char *argv[]
                                                   d) char *argv,int *argc
28) using which macro, we can display the argument from variable number of argument function?.
                                                                 d) va_start
a) va_arg
                     b) va_list
                                           c) va_show
29) What is the output? void fun(int *ptr2)
{
       *ptr2=30;
}
void main()
{
       int num=10; int *ptr1=#
                                           fun(ptr1);
                                                          cout<<num<<endl;
                                                                                getch();
    }
    a) 10
                     b) garbage value
                                                   c) it will not compile
                                                                                d) 30
30) what is the output?
void main()
          int* getAr();
       int *ptr;
       ptr=getAr();
       cout<<ptr[2]<<en
              getch();
    dl;
    int* getAr()
              int arr[4]={10,20,30,40};
              return arr;
a) 20
                                           c) it will not compile
                                                                                d) warning
                     b) 30
31) What will happen to following code?
        struct emp
        {
```

char name[20];



```
};
         void main()
          emp e1={"abc"};
         emp e2;
         e2.name=e1.name;
         cout<<e2.name<<e
         ndl:
         getch();
               b) compiler error
                                     c) output "abc"
                                                           d) none of the above.
a) warning
32) which statement will print the value of num? struct mystruct
        {
               int *k;
        };
               void main()
        {
               int num=200;
               mystruct *ptr=new mystruct;
        ptr-
  >k=#
        // here
        getch();
 a) *(*ptr).k or *ptr->k
                                     b) *ptr.k
                                                           c) ptr->k
                                                                                        d) ptr->*k
33) What is the output?
const int a=124;
    void main()
        const int* sample(); int *p;
        p=sample();
        cout<<*p;
    const int* sample()
               return (&a);
  }
                      b) compilation error
                                                    c) output "124"
                                                                          d) garbage value
a) warning
34) For the following allocation which would be the proper deallocation?
        int *p = new int[5]
a) Free(p)
                      b) Delete p
                                                    c) Delete [] p
                                                                          d) None of the above
35) References are allocated memory
a) False
                       b) True
36) If ptr is a pointer to array of objects, then delete ptr and delete [] ptr both are same
 a) False
                      b) True
```

37) Which one of the following is demonstrated by the sample code above?



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a) A default function parameter b) A virtual member function c) A template function d) A member function definition 38) The statements int a=5; cout<<"First"<<(a<<2)<<"Second"; Output will be a) First52Second b) Second25First c) First20Second d) An error message. 39) The following program segment int a =10; int const &b=a; a=11 printf("%d%d",a,b); a) Results in compile time error b) Results in run time error c) 11 11 d) None of the above. 40) 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()"? b) 30 a) 15 c) 24 41) What is the output? #include<stdio.h> void main() int x=4; printf("%d",printf("%d%d",x,x)); a) Garbage c) 2,2,4 d) compile time error b) 4,4,2 42) What is the output? #include<iostream.h> void main() int a=20; int &n=a; n=a++; a=n++; cout<<a<<"\t"<<n<<endl; d) 22 22 a) 20 20 b) 20 21 c) 21 22 43) What is the output ? #include<iostream.h> void main() {

int arr[]={10,20,30,40,50};



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,	<pre>int x,*ptr1=arr, x=ptr2-ptr1; cout<<x<<endl;< pre=""></x<<endl;<></pre>			
a) 6	I	o) 3 c) co	mpile time error	d) runtime error
a)	entify following const int * ptr; t const * str;			
-	e can not make c a) True	onstant pointer poi b) Fa	nting to constant int value	ariable.
-	ray of reference a	can not be created. b) Fa	lse	
	sing which macro a) va_arg	o, we can initialize t b) va_list	he list of data in case o c) va_show	of variable number of argument function? d) va_start
•	C++ function ca a) True	ll can be on left side b) False		
-	/e can make po a) True	pinter to constant b) False	pointing to non-consta	nt int variable.
50) ci a) stdi	n and cout are p o.h	resent in b) iostream	c) conio.h	
51) Na a) fals		vays happens in C++ b) true		
a) argu b) retu c) bot	urn type must be h return type and	different , return ty		
	hat will happen t int& retVal() { t cnt=20;	o the following cod	e while compiling ?	
	return cnt; }			
a) No I	Error	b) Error	c) Warning	
void {	include <iostream main() nar * const t="he</iostream 			

t="world";



```
a) Runtime Error
                      b) Compilation Error
                                                  c) Neither Compilation or Runtime Error
 55) #include<iostream.h>
    int& disp()
       int num=10;
       return num;
    void main()
     disp()=30;
a) Compilation Error
                            b) No Error, No Warning
                                                                c) Warning
       #include<iostream.h> void main()
56)
   {
       int i=5;
       int
    &j=i;
       int
    p=10;
       j=p;
          p=20;
              cout<<endl<<i;
      20,20
                            b) 10,5
                                                  c) 5,10
                                                                        d) 10,10
 57)
       #include<iostream.h> void main()
              char *p="Hello";
          char *q=p;
              q="Good Bye";
              cout<<p<<"\t"<<q;
              Good Bye
                                    b) Good Bye
                                                   Good Bye
                                                                       c) Error: Lvalue Regd.
      Hello
       #include<iostream.h
 58)
       > const int a=124;
       void main()
           {
              const int* sample();
              int *p;
              p=sample();
           const int* sample()
              return (&a);
a) Warning
                            b) Neithe Warning nor Error
                                                                       c) Compilation Error
```



```
void main()
   {
        char t[]="String functions are simple";
        int len=strlen(t);
        cout<<len;
a) Compilation Error
                              b) Warning
                                                    c) successful output
        60)
              #include<iostream>
        void main()
              int a=30;
              f();
   void f()
              int b=30;
a) Successful output
                                     b) Warning
                                                                   c) Compilation Error
61) What will happen to the following code?
        #include<iostream.h
        > void main()
         { for(int
        i=0;i<5;i++)
              int a=0;
        a++;
        cout<<endl<<a;
a) compilation error b) it will print garbage value
                                                           c) it will print 1
                                                                                 d) it will print 5
62) what will happen to the following code?
    #include<iostream.h>
              void main()
              for(int i=0;i<5;i++)
              cout<<endl<<i;
       for(int i=5; ;i++)
              cout<<endl<<i;
  a) it will print 0 to 9
  b) infinite loop because there is no condition in second for loop
  c) compilation error
  63) C++ compiler internally changes names of all functions at the declaration, definition and call. This
      process is known as _____ or ____
```



```
64) True or False. Default arguments can be given in the beginning or in between also.
                          b) False
a) True
65) Function overloading and operator overloading comes under
a) Run time polymorphism
                                         b) Compile time polymorphism
c) Both a and b are correct
                                         d) None of the above
66) What will be the output of the following code?
#include<iostream.h>
#define MAXROW 3
  #define MAXCOL 4
  void main()
{
int (*p) [MAXCOL]; p=new
  int[MAXROW][MAXCOL];
cout<<endl<<sizeof(p)<<endl<<sizeof(*p);</pre>
a) 2(under Dos) or 4(under Linux or windows) 8(under Dos) or 16(under Linux or
  windows)
b) 4(under Dos) or 8(under Linux or windows) 8(under Dos) or 16(under Linux or
  windows)
c) compilation error
d) runtime error
67) What is the output of the program?
#include <iostream.h>
void main ()
for(int j = 1, sum = 0; j < 5; j++)
  sum += j;
sum = j;
cout << sum;
}
a) 6
            b) 5
                          c) Compilation error. Undefined variable sum and j
                                                                                     d) 10
68) Which of the following is false about struct and class in C++?
a) he members 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
69) What is the output of the program?
#include <iostream.h> main()
int a=5, b=10; if
  (a=b)
  cout<<"Hi";
  else
  cout<<"Hello
```



```
cout<<"Bye"<<a;
a) HiBye10
                           b) HelloBye10
                                                 c) Compilation Error
                                                                               d) HiBye5
70) What will happen to the following code?
#include <iostream.h> const
  int a=20;
void main()
int *ptr; const
  int* retA();
  ptr=retA();
cout<<*ptr;
const int* retA()
return &a;
a) warning
                   b) compilation error
                                                 c) neither warning nor compilation error
71) What will happen to the following code?
#include<iostream.h>
void main()
{
    int a=30;
    f();
void f()
    int b=30;
                                  b) Warning
a) Successful output
                                                        c) Compilation Error
72) what is the output?
#include <stdio.h>
  float cal (float
  value)
return (3 * value);
void main()
int a = 10;
float b = cal("123");
}
                                                                       b) 123
a) 369
c) Compilation error - Cannot convert from char to float
                                                                       d) None of the above
73) What is the output of the program?
#include <iostream.h>
inline int max(int x, int y)
```



```
return(x > y ? x : y);
void main()
int(* max func)(int,int)=max;
cout << max_func(75,33);</pre>
a) 75
            b) Error - Undefined symbol max func
                                                            c) 33
                                                                         d) None of the above
74) What is the output of the following?
#include <iostream.h> int
  add(int, int = 5, int = 10);
  void main()
cout << add(10) << " " << add(10, 20) << " " << add(10, 20, 30);
                                                                                       int add(int a,
}
  int b, int c)
return a + b + c;
                                                           c) 15 30 60
a) compilation error
                                 b) 25 40 60
                                                                                    d) 20 40 60
75) What will happen to the following code?
#include<iostream.h>
void main()
int *ptr=new int;
  delete ptr;
  delete ptr;
}
  a)Runtime Error
                            b) Neither compilation nor Runtime Error c) Compilation Error
76) What will happen to the following code?
#include<iostream.h>
void main()
{
    int *ptr=new int;
    delete []ptr;
a)Runtime Error
                           b) Neither compilation nor Runtime Error
                                                                               c) Compilation Error
77) What will happen to the following?
#include<iostream.h>
void accept(int x,int y)
cout<<"in value method\n";</pre>
void accept(int &p,int &q)
cout<<"in referece method\n";
```



```
void main()
accept(45,55);
a) output "in value method"
                                        c) output "in referece method"
b) compilation error
                                        d) output "in value method in reference method"
78) What will happen to the following?
#include<iostream.h>
void main()
cout<<30<<endl; int
  &ref=30; ref=60;
cout<<ref<<endl;
                                b) compilation error
                                                             c) output 30
a) output 30 30
79) What will happen to the following code?
#include<iostream.h> int
  num=200;
void main()
int const *ptr;
  int*
  retNum();
  ptr=retNum();
cout<<*ptr;
int* retNum()
return #
                                 b) compilation error
a) output 200
                                                             c) Runtime Error
80) What will happen to the following?
#include<iostream.h>
void main()
int val=300; int *
  const ptr;
  ptr=&val;
  *ptr=600;
  cout<<endl<<*ptr
a) compilation error
                                       c) output 600
b)output 300
                                       d) output, garbage value
81) What is the output? #include<iostream.h>
void main()
```



PG DAC Feb 20 Oops with C++ Question Bank

```
{
    int num=20;
    void disp(int,int);
    disp(num,++num);
   void disp(int a,int b)
    cout<<a<<"\t"<<b<<endl;
   a) 1 21
                        b) 20 21
                                             c) 20 20
                                                                    d) 21 20
   82) What will happen to the following program?
      #include<iostream.h>
        void main()
        int *ptr=new int;
      delete ptr;
        ptr=0;
        delete ptr;
                                                    c) neither compilation error nor runtime error
   a) compilation error
                              b) runtime error
   83) What will happen to the following code?
   #include<iostream.h>
   int var=200;
   void main()
    int& fun(); cout<<var<<endl;
      fun()=100;
    cout<<var<<endl;
   }
   int& fun()
    static int var=30;
    return var;
   a) neither compilation error nor warning, output 200
                                                            100
   b) warning
   c) compilation error
   d) neither compilation error nor warning ,output 200
                                                            200
   84) what is the output? #include<iostream.h> const int a=124;
   void main()
    const int* sample();
    int * const p=sample();
   const int* sample()
   { return (&a);
                                                               c) neither compilation nor runtime error
a) compile time error
                                        b) runtime error
```

}



```
85) What is the output?
#include<iostream.h>
    const int a=124;
    void main()
    const int* sample(); int const* p;
    p=sample();
    const int* sample()
    { return (&a);
}
                                 b) runtime error
                                                               c) neither compilation nor runtime error
a) compile time error
86) Given
    #include<iostream.h>
    void disp()
        int *ptr=new int;
    void main()
        disp();
In the above code after disp() method is over, the situation becomes
a) Dangling Poiner
                                        b) Memory Leak
                                                                       c) None of these
  87) Given
    #include<iostream.h>
       void main()
           int *ptr=new int;
       delete ptr;
            //Some other C++ Statements....
   In the above code after "delete ptr" statement, the situation becomes
   a) Dangling Pointer
                                                b) Memory Leak
                                                                              c) None of these
   88) What will happen #include <iostream.h>
    int a=20;
    void main()
    {
      int *ptr; int *const retA();
                                      ptr=retA();
       cout<<*ptr;
    int *const retA()
       return &a;
   a)neither compile, nor runtime error
                                                                               c) compiletime error
                                                b) runtime error
```



PG DAC Feb 20 Oops with C++ Question Bank

```
89) What will happen #include <iostream.h>
  const int a=20;
  void main()
                                     ptr=retA();
     int *ptr; int *const retA();
     cout<<*ptr;
  }
   int *const retA()
     return &a;
                                                   b) runtime error
                                                                                      c) compiletime error
 a) neither compile ,nor runtime error
90) Will the following code
     work? #include <iostream>
     using namespace std;
  int main ()
  {
     int f()
     {
       return 10;
     }
     cout << f() << endl;
     return 0;
  }
                                     b) no
     a) Yes
91) Will the following code compile and link?
     Give reasons.
  #include <iostream> using
     namespace std;
  int main ()
     int i = 0;
     int &ri(i);
     return 0;
  }
                               b) no
  a) yes
92) Will the following code compile and link? Give reasons. int main()
  { int
     i =
     0;
     int &ri = 0;
    return 0;
  a) Yes
                      b) no
```

93) Will the following code compile, link and execute?



```
File a.h
  int i;
  File a.cpp '
  int main ()
  #include "a.h"
  i = 0; return
     0;
  a) Yes
                            b) no
94) When the following two file, a.cpp and b.cpp are compiled, we get linking error. Why?
     Compilation and linking command
  cl.exe a.cpp b.cpp
  File a.cpp
  ======
  int f(); int
     main()
     {
  f();
  return 0;
  }
  File b.cpp
  extern "C" int f();
  int f()
  {
  return 0;
  a) There is no main function inside "b.cpp"
  b) Function "f()" is declared but not defined inside "a.cpp"
  c) Function "f()" is declared with "extern" inside "b.cpp"
  d) None of the above
  95) What will be the output of the following program?
  #include <iostream>
  using namespace std;
  int f()
  cout << "f() called" << endl; return
     0;
  }
  int main ()
  extern int f();
  return 0;
                                b) Compiler error
  a) Output "f() called"
                                                     c) No output
                                                                      d) None of the above
```



```
96) Will the following code compile and link?
#define f main
int f()
return 0;
                            b) no
a) Yes
97) What will be the output of the following code?
#include <iostream>
using namespace std; void
   f()
cout < < "First f function called" < < endl;</pre>
void f()
cout << "Second ffunction called" << endl;</pre>
Int main ()
F();
F();
Return 0;
}
a) First function called
                            second function called
b) First function called
c) Second function called
d) Compiler error
98) Is there anything wrong in the following code? If so, what?
int main ()
{ int x; x
   = x;
   return
  0;
}
                            b) No
a) Yes
99) Is there anything wrong in the following
  code? If so, what?
int main ()
const int x;
return 0;
}
a) Yes int cannot be made constant
b) No there is nothing wrong
c) Yes const must be initialized
d) None of the above
```



```
100) Will the following code compile and link?
  typedef int INT;
int main ()
INT i=0;
  return 0;
}
  a) Yes
                           b) no
101) What will be the output of the following program?
#include <iostream>
  using namespace
  std;
int main ()
Int i = 10; int
  *pi = &i;
  *pi = 100;
  cout << i
  << endl;
  return 0;
}
                                                                d) None of these
                   b) 100
a) 10
                                          c) Garbage
102) What will happen to the following program?
#include <iostream>
  using namespace
  std;
int main ()
{ int i
  20
const int *pi
  = &i; *pi =
  200; cout
  << i <<
  endl;
  return 0;
}
a) Compilation error
                           b) Output 20
                                                 c) Output 200
                                                                        d) None of these
103) What will happen?
  #include<iostream.h>
void disp(int a=0,int b,int c)
cout<<a<<"\t"<<b<<"\t"<<c<endl;
void main()
```



```
disp(10,20);
}
     a) output 10 20 0
                                 b) output 0 10 20
                                                              c) output 10 10 20
                                                                                           d) error
104) In case of function overloading
a) arguments must be different, return type may or may not be different
b) return type must be different, arguments may or may not be different
c) both return type and arguments must be same
d) both return type and arguments must be different
                                                                int& retVal()
105) What will happen to the following code while compiling?
   {
int cnt=20;
   return cnt;
   }
                                                c) Warning
a) No Error
                          b) Error
106)#include<iostream.h>
                               void main()
{
   char * const t="hello";
   t="world";
}
                                                c) Neither Compilation or Runtime Error
                   b) Compilation Error
a) Runtime Error
107)#include<iostream.h>
int& disp()
{
   int num=10;
     return num;
}
void main()
  disp()=30;
a) Compilation Error
                            b) No Error, No Warning
                                                           c) Warning
108) #include < iostream.h > void main()
   char *p="Hello";
     char *q=p;
     q="Good Bye";
     cout<<p<<"\t"<<q;
}
a) Hello Good Bye
                                 b) Good Bye Good Bye
                                                                     c) Error: Lvalue Reqd.
 109) #include<iostream.h>
   const int a=124;
void main()
{
```



```
const int* sample();
    int *p;
    p=sample();
const int* sample()
  { return (&a);
                           b) Neithe Warning nor Error
                                                                c) Compilation Error
a) Warning
110) #include<iostream>
void main()
  char t[]="String functions are simple";
    int len=strlen(t);
    cout<<len;
}
                                  b) Warning
                                                         c) successful output
a) Compilation Error
111)#include<iostream.h>
  void main()
    int a=30;
    f();
void f()
    int b=30;
a) Successful output
                                          b) Warning
                                                                        c) Compilation Error
112) What will happen to the following code?
#include<iostream.h>
    void main()
    for(int i=0;i<5;i++)
            int a=0;
a++;
cout<<endl<<a;
a) compilation error
                           b) it will print garbage value
                                                                c) it will print 1
                                                                                        d) it will print 5
113) What will happen to the following code?
#include<iostream.h>
  void main()
for(int i=0;i<5;i++)
cout<<endl<<i;
for(int i=5; ;i++)
```



PG DAC Feb 20 Oops with C++ Question Bank

```
{
cout<<endl<<i;
}
}
a) it will print 0 to 9
b) infinite loop because there is no condition in second for loop
c) compilation error
114) C++ compiler internally changes names of all functions at the declaration, definition and call. This
  process is known as or
115) Default arguments can be given in the beginning or in between also.
a) True
                         b) False
116) Function overloading and operator overloading comes under
a) Run time polymorphism
                                 b) Compile time polymorphism
c) Both a and b are correct
                                 d) None of the above
117) What will be the output of the following code?
#include<iostream.h>
#define MAXROW 3
  #define MAXCOL 4
  void main()
int (*p) [MAXCOL]; p=new
  int[MAXROW][MAXCOL];
  cout<<endl<<sizeof(p)<<endl<<sizeof(*p)
}
a) 2(under Dos) or 4(under Linux or windows) 8(under Dos) or 16(under Linux or windows)
b) 4(under Dos) or 8(under Linux or windows) 8(under Dos) or 16(under Linux or windows)
c) compilation error
d) runtime error
118) What is the output of the program?
#include <iostream.h>
void main ()
for(int j = 1, sum = 0; j < 5; j++)
sum += j; sum =
  j;
cout << sum;
}
a) 6
            b) 5
                         c) Compilation error. Undefined variable sum and j
                                                                                  d) 10
```

119) Which of the following is false about struct and class in C++?

- a) The members 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



```
120) What is the output of the program?
#include <iostream.h> main()
int a=5, b=10; if
  (a=b)
  cout<<"Hi";
  else
  cout<<"Hello";
cout<<"Bye"<<a;
                                         c) Compilation Error
                                                                        d) HiBye5
a) HiBye10
                   b) HelloBye10
                                                                                              e) Bye10
121) What will happen to the following code?
#include <iostream.h> const
  int a=20;
void main()
{ int *ptr; const
  int* retA();
  ptr=retA();
cout<<*ptr;
const int* retA()
    return &a;
                   b) compilation error
                                                 c) neither warning nor compilation error
a) warning
122) What will happen to the following code?
#include<iostream.h>
void main()
{
    int a=30;
    f();
void f()
    int b=30;
}
  a) Successful output
                                  b) Warning
                                                        c) Compilation Error
123) what is the output?
  #include <stdio.h>
float cal (float value)
return (3 * value);
void main()
int a = 10;
float b = cal ("123");
```



PG DAC Feb 20 Oops with C++ Question Bank

```
c) Compilation error - Cannot convert from char to float
a) 369
                           d) None of the above
b) 123
124) What is the output of the program?
#include <iostream.h>
inline int max(int x, int y)
return(x > y ? x : y);
void main()
int(* max func)(int,int)=max;
cout << max_func(75,33);</pre>
}
                                                                        d) None of the above
a) 75
            b) Error - Undefined symbol max func
                                                           c) 33
125) What is the output of the following?
#include <iostream.h> int
  add(int, int = 5, int = 10);
  void main()
cout << add(10) << " " << add(10, 20) << " " << add(10, 20, 30);
}
   int add(int a, int b, int c)
return a + b + c;
a) compilation error
                                 b) 25 40 60
                                                           c) 15 30 60
                                                                                     d) 20 40 60
126) What will happen to the following code?
#include<iostream.h>
void main()
int *ptr=new int;
  delete ptr;
  delete ptr;
                           b) Neither compilation nor Runtime Error
                                                                               c) Compilation Error
a) Runtime Error
127) What will happen to the following code?
#include<iostream.h>
void main()
    int *ptr=new int;
    delete []ptr;
a) Runtime Error
b) Neither compilation nor Runtime Error
c) Compilation Error
128) What will happen to the following?
```

#include<iostream.h>



```
void main()
cout<<30<<endl; int
  &ref=30; ref=60;
cout<<ref<<endl;
                                 b) compilation error
                                                             c) output 30
a) output 30 30
129) What will happen to the following code?
#include<iostream.h
  > int num=200;
void main()
int const *ptr;
  int*
  retNum();
  ptr=retNum();
    cout<<*ptr;
int* retNum()
    return #
                                 b) compilation error
                                                                    c) Runtime Error
a) output 200
130) What will happen to the following?
#include<iostream.h>
void main()
{
  int val=300;
    int * const
  ptr;
    ptr=&val;
    *ptr=600;
    cout<<endl<<*ptr;
a) compilation error b) output 600
                                        c) output 300
                                                             d) output, garbage value
131) What is the output? #include<iostream.h>
void main()
{
int num=20;
void disp(int,int);
disp(num,++num);
void disp(int a,int b)
cout<<a<<"\t"<<b<<endl;
a) 21 21
                  b) 20 21
                                        c) 20 20
                                                             d) 21 20
```



```
132) What will happen to the following program?
    #include<iostream.h>
    void main()
{
  int *ptr=new
            delete
  int;
            ptr=0;
  ptr;
    delete ptr;
a) compilation error b) runtime error c) neither compilation error nor runtime error
133) What will happen to the following code?
#include<iostream.h>
int var=200;
void main()
int& fun(); cout<<var<<endl;</pre>
  fun()=100;
cout<<var<<endl;
int& fun()
{
static int var=30;
return var;
a) neither compilation error nor warning,
                                            output 200
b) warning
c) neither compilation error nor warning, output 200 200
d) compilation error
134) What is the output
  #include<iostream.h
  > const int a=124;
void main()
    const int* sample();
    int * const p=sample();
const int* sample()
  { return (&a);
a) compile time error
                                  b) runtime error
                                                        c) neither compilation nor runtime error
135) what is the output?
    #include<iostream.h>
const int a=124;
void main()
{
    const int* sample();
    int const* p;
```



```
p=sample();
}
const int* sample()
  { return (&a);
a) compile time error
                                  b) runtime error
                                                         c) neither compilation nor runtime error
136)
  Given
#include<iostream.h>
void disp()
{
    int *ptr=new int;
void main()
    disp();
In the above code after disp() method is over, the situation becomes
a) Dangling Poiner
                                 b) Memory Leak
                                                               c) None of these
137) Given
#include<iostream.h>
   void main()
       int *ptr=new int;
  delete ptr;
        //Some other C++ Statements....
In the above code after "delete ptr" statement, the situation becomes
a) Dangling Pointer
                                  b) Memory Leak
                                                               c) None of these
138) What will happen?
  #include <iostream.h>
int a=20;
void main()
  int *ptr; int
   *const retA();
    ptr=retA();
    cout<<*ptr;
}
int *const retA()
    return &a;
a) neither compile ,nor runtime error
                                                                             c) compiletime error
                                                b) runtime error
139) what will happen?
  #include
```



```
<iostream.h> const
   int a=20;
void main()
   int *ptr; int
   *const retA();
    ptr=retA();
    cout<<*ptr;
}
int *const retA()
    return &a;
a) neither compile, nor runtime error
                                                   b) runtime error
                                                                                  c) compiletime error
140) What is the referent in the following code?
   int main ()
int i = 0;
int &ri = i;
return 0;
              b) i
                                                     d)none
a) ri
                            c) Both ri and i
141) What is the output of the following code:
  #include <iostream>
  using namespace std;
  int main ()
int x = 10, y = 20;
if (x > y);
 cout << "x is greater than y" < < endl;
    return 0;
                                   b) no output
                                                          c) compiler error
                                                                                  d) none of these
a) x is greater than y
142) What is the output of the following code? Explain the reason.
  #include <iostream>
   using namespace std;
  int main()
int i = 10;
            int j = 20;
int *pi = &i; int
   *pj = &j;
  if(pi = pj) {
cout << "Address of pi and pj are same" < < endl;
```



PG DAC Feb 20 Oops with C++ Question Bank

```
}
  else {
cout << "Address of pi and pj are different" < < endl;</pre>
  return 0;
}
a) address of pi and pj are same
                                                   c) compiler erro
b) address of pi and pj are different
                                                   d) none of these
143) What is the output of the following code:
int main()
  inti = 100;
  int &ri = i;
  ri = 200;
  ri = i; i
  = ri;
  cout << i
   << endl;
   return 0;
}
                                            c) 300
                                                           d)Compiler error
a) 100
                    b) 200
144) Write code in main function, which will output the value of the global variable i on the console.
#include <iostream>
using namespace std; int i =
   100;
int main()
{
int i = 500;
  // Write your code below this comment
  0;
a) cout<<i;
                    b) cout<<::i;
                                            c) cout<<&i;
                                                                   d) You can't print global variable in main
145) What is the output in the following code:
#include <iostream >
using namespace std;
   int i = 100;
int& f()
{
  return i;
}
int main()
  f() = 200;
   cout << i <<
  endl;
           return
   0;
```

}



```
c) 300
a) 200
                     b)100
                                                                 d)Compiler error
146) What is the output of the following code:
#inc|ude <iostream>
  using namespace
  std;
int main()
{
const int j =
  100; cout
  <<j << endl;
  j = 300;
  cout << j <<
  endl;
  return 0;
}
                      b) 100
                                                         d) Compiler error
a) 300
                                          c) 0
147) What is the output of the following code:
#include <iostream>
  using namespace
  std; int main()
int *pi;
          *pi =
  100;
          cout <<
  *pi << endl;
  return 0;
}
                    b) Compiler error
                                                  c) Runtime error
a) 100
                                                                               d) 0
148) What is the output of the following code:
#include <iostream>
  using namespace
  std;
int main()
int a[3] = \{10, 20, -1\}
  30}; int p = a[1];
  P--;
  cout << *p << endl;
  cout << p[3] << endl;
  return 0;
}
a) 10 garbage value
                                   b) 10 -30
                                                           c) 10 20
                                                                               d) Runtime error
149) what is the output?
  #include <iostream>
using namespace std;
void f(inti)
```



```
i = 40;
 }
 void f1( int &k)
   k = 40;
 int main()
 \{ int j = 0; cout <<
   j << endl;
 f(j);
 cout << j << endl;
 f1(j);
 cout <<j << endl; return
   0;
 }
                                                   c) 0 0 40
                                                                           d) Compiler error
 a) 0 40
                            b) 0 0 0
             40
 150) What is the output?
   #include <iostream>
 using namespace
   std; int i=0;
 int& f()
 {
   return i;
 int g(int &ri)
     ri
   =10
   0;
   return 0;
 }
 int main()
   cout << i << endl;
   g (f());
   cout << i << endl;
   return 0;
 }
                            b) 0 0
 a) compilation error
                                                    c) 100
                                                              100
                                                                                  d) 0 100
151) What will happen? #include<iostream.h>
 int val=100;
 void main()
 {
     int val=40;
   {
     int val=50;
     cout<<::val;
 }
     a) output 100
                                     b) output 50
                                                            c) output 40 d) compilation error
```



PG DAC Feb 20 Oops with C++ Question Bank

```
152) Will the following code compile and link? If not, give reasons for the
   error. int main ()
{ int i = (int)10;
return 0;
a) Yes
                    b) No
153) Will the following code compile and
   link int main ()
int i = 100, j = i;
return 0;
                     b) No
a) Yes
154) Will the following code compile and link?
int main ()
{
int stdio = 0;
int iostream = 0;
return 0;
a) Yes
                     b) no
155) What is the value of variable i after line 14:
01 int main ()
02 {
03 inti = 10;
04
  05 i = 20;
06
   07 i = 10 + 30;
80
  09 i = 40 + 0;
10
   11 i = 0 + 0;
12
13 i = 20;
   14 i+=
   5;
15
16 Return 0;
  }
a) 20
                     b) 25
                                              c) 0
                                                                      d) 5
```

156) Will the following code compile and link?



PG DAC Feb 20 Oops with C++ Question Bank

```
int main ()
virtual int j = 0;
return 0;
}
a) Yes
                     b) no
157) In the following code, which variable will be created in stack
   memory? int i; int main ()
int j;
return 0;
}
a) I
                    b) j
                                            c) both I and j
                                                                           d) none
158) Will the following code compile and link?
int main ()
{
int i;
&i;
return 0;
}
a) Yes
                            b) no
159) Will the following code compile and link?
#define Begin
  { #define
   End
          } int
   main ()
Begin
return 0;
End
                                   b) no
a) Yes
160) What kind of error we will get in the following code? Compilation Error or Linking Error?
void f();
int main ()
{
f();
return 0; -
a)compile time error
                            b)link error
                                                   c)runtime error
                                                                                 d)successful execution
161) What is the value of the following on MS Windows 2000 or 32-bit implementation of Linux?
   sizeof (unsigned short int)
a) 2 bytes
                            b) 3 bytes
                                                     c) 4 bytes
                                                                                 d) 8 bytes
```

162) What is the output from the following program?



```
#include <iostream>
using namespace std;
void f ()
Int i = 10; cout << i <
  < endl;
i++;
}
int main ()
{ f();
  f();
return 0;
                                                   c)Compiletime error
                                                                                    d)None of the above
a) 10
         11
                            b)10
                                     10
163) In the following code, function f returns a value which is an integer. In the function main, we are
   calling function f, but the return value we are not using or storing in any variable. Is this acceptable?
int f ()
{
return 100;
}
int main ()
}
    f();
return 0;
a) yes
                     b) no
164) Will the following code give linking error as function f is not defined?
int f();
int main ( )
return 0;
}
                     b) no
a) yes
165) Will the following code compile and link? If yes, what will be the output of the following program?
#include <iostream> using
   namespace std;
#ifdef 0
int main()
{
cout << "First main called" < < endl;</pre>
   return 0; #else int main()
cout << "Second main called" << endl; return</pre>
   0;
}
S
#endif
```



```
c) successful output
a) compiler error
                                  b) linking error
166) What will happen to the following code?
#include<iostream> using
  namespace std;
#define Num #ifdef
  Num
int main()
cout << "First main called" << endl; return
  0;
}
#else int
  main()
cout << "Second main called" << endl; return
}
#endif
a)compiler error
                           b)First main called
                          d)None of the following
c)Second main called
167) what will happen to the following code?
#include<iostream>
  using namespace
  std;
#ifdef Num
int main()
{
cout << "First main called" << endl;
  return 0;
}
#else
  int
  ma
  in()
{
cout << "Second main called" << endl;</pre>
  return 0;
}
#endif
a) compiler error as Num is not defined
                                                        b)First main called
                                                         d)None of the following
c)Second main called
168) What is the output from the following program?
#include <iostream>
using namespace std;
void f ()
static int i = 10; cout
  << i < < endl;
```



```
i++;
 int main ()
 { f();
   f()
 return 0;
                                           c)Compiletime error
 a) 10
          11
                    b)10
                             10
                                                                           d)None of the above
 169) What is wrong in the following code?
 int main ()
 {
 0 = 0; return
   0; }
 a) nothing wrong
                            b) I-value error
 170) What is wrong in the following code? int main ()
 return 0;
                            b) u cant have; without any c++ expression
 a) nothing wrong
 171) What is wrong in the following code? Will the following code compile and link?
 int main ()
 return 0; return
    1;
 }
    a) yes
                             b) no
 172) What is the output of the following code?
 #include <iostream> using namespace std;
 int main ()
 int return = 0; cout < < return << endl; return 0;
a) link error b) compile error
                                           c) runtime error
                                                                 d) successful output
173) What is the output of the following code?
 #include <iostream>
    using namespace std,'
 int main ()
 int endl = 0; cout <<
    endl << endl;
    return 0;
```



```
}
 a) 0
                     b) 0
                                           c) Compilation error
                                                                                 d) Runtime error
 174) What will happen to the following code?
 int main ()
 {
 main();
 return 0;
 }
 a) Compile time error
 b) Link error
 c) U need to terminate this program explicitly as recursion happens here
 d) None of the above
 175) What will happen to the following code?
 #define I 100
 int main()
 \{ int i = I; 
 cout<<i<<endl; return 0;</pre>
 a) 100
                      b) Garbage
                                        c)Compiler error
 176) what will happen to the following code?
 #define I 100 #undef I
 int main()
 \{ int i = I; 
 cout<<i<<endl; return 0;
     d)None of the following
                                                c) Compiler error
 a) 100
                        b) Garbage
 177) Will the following code compile? int main ()
 { int int i;
 return 0;
   a) yes
                            b) no
 178) What is the output of the following program?
 #include <iostream> using namespace std;
 int main ()
 cout << sizeof( int ) << endl; return 0;</pre>
} d)None of the following
  a) 4
             b) 1
                                    c) compilation error
                                                                         d) none of the above
 179) Will the following program compile and link?
 int main()
 {
 void v; return
   0;
 }
                             b) no
   a) yes
```



```
180) What will be the output of the following code?
  #include <iostream>
using namespace std;
int main ()
cout << "Hi\n\tHello" < < endl; return
}
a) Hi and Hello on same line separated by tab
b) Hi and Hello on different lines
c) Compiler error as \n and \t can not be combined together
d) Hello
181) What will be the output of the following code?
#include <iostream> using
  namespace std;
int main ()
int default = 0;
cout << default << endl; return
  0;
}
                                           b) compiler error: cannot give default as variable name
  a) 0
                                                  d) runtime err
  c) linking error
182) what is the output?
void printOutput(void); int
  main(void)
printOutput(); printOutput();
return 0;
void printOutput(void)
static int liVar = 102; liVar--;
printf("%d", liVar);
                           b) 101, 100
  a) 101, 101
                                                  c) 102, 102
                                                                        d) 102, 10
183) In the following C code snippet, what will be the output?
char *str = NULL;
if ((str != NULL) && (*str == 'A'))
printf("success\n");
else
printf("Not found\n");
(a) It can lead to a crash
                           (b) Prints Success
                                                  (c) Prints not found (d) Compile time error
```



```
184) Which of the following swap functions is correct (Swapping 2 int using pass bypointer approach)? a)
  void swap(int *x, int *y)
int *Z = 0; *Z *
  *x;
*X = *y;
*Z * y;
(b) void swap(int *x, int *y)
int *Z = 0;
Z = *x; X
  = Y; y
  = Z;
}
(c) Void swao(int *x, int *y)
{
int Z =0;
Z=*X;
*X=*y;
*y=Z;
(d) Void swap(int x, int y)
int Z=0;
  Z=X;
  X=Y:
Y=Z;
185) Why does the following code give compilation error?
#include <iostream>
int main ()
cout << "main called" << endl; return
  0;
}
  a) There is no "using namespace std"
                                                  b) Iostream.h should have been there
   c) #include <cout> is not there
                                                         d) None of the above
186) In the following code iostream is a header file.
#include <iostream> using
  namespace std;
int main ()
cout << "main called" < < endl;
return 0;
```



PG DAC Feb 20 Oops with C++ Question Bank

```
a) True
                                               b) false
  187) What will be the output from the following code?
  #include <iostream> using
     namespace std;
  int main ()
  int i;
   cout << i << endl; return
  }
     a) 0
                       b) Garbage
                                              c) Compile error
                                                                     d) Runtime error
 188) What does the following code do?
  int main ()
  { int i (40);
  return 0;
 a) Assigning 40 to i
                                                            b) Initializing I with 40
 c) Calling i function by passing 40
                                                            d) None of the above
189) Will the following code compile and link?
  int main ()
  int i = int(10);
  return 0;
  }
                                              b) no
     a) Yes
  190) Will the following code compile and link?
  int main ()
  {
  int i = 100; int I
     = 200;
  return 0;
     a) Yes
                                              b) no
  191) Will the following code compile and link?
  int main ()
  {
  int i = 100; int j
     = i;
  return 0;
  }
                                        b) no
     a) Yes
  192) What is wrong in the following code? Will it compile and link?
```

int main ()



```
{{
 return 0;
 }}
 a) It will compile but not linked
                                                               b) It will not compile
                                                              d) It will compile, link and run successfully.
 c) It will compile, link but fail at runtime.
193) Which of the following statements are TRUE?
a) Reference variables must be initialized in C++
                                                              b) Array of reference is possible
c) Both A) and B)
                                                               d) None of the Above
 194) What does extern "C" int Func(int *, short int); mean?
 a) Declare Func as extern
 b) Will turn off "name mangling" for Func
 c) None of the above
 195) Consider the following declarations in C enum colors black, blue, green };
 This represent
 a) black = 0, blue = 1, green = 2
 b) color[1] = 'black', color[2] = 'blue', color[3] = 'green'
 c) color = 'black' or color = 'blue' or color = 'green'
 d) black = -1, blue = 0, green = 1;
 e)Syntax error
 196) What result is in the variable num after execution of the following statements?
 int num = 58; num
    %= 11;
 a) 3
                     b) 5
                                            c) 2
                                                                   d) 1 1
 197) What will be the output of this program?
 #include <stdio.h>
 int main(void)
 {
 int i = OX7;
 i = i \wedge i;
 printf("%d\n", i); return
    0;
 a) 1
             b) 7
                                    c) O
                                                           d) 823543
 198) Is the following C++ code safe?
 int main(void)
 char *szBuffer = new char[64]; strcpy(szBuffer,
    "Financial Technologies"); szBuffer++;
 delete [] szBuffer; return 0;
 }
     a) Yes
                                       b) No
 199) What will be the output of the following?
 int main(void)
```



```
int c = 7654; int
   *pc = &c;
   (*pC)++;
printf("%d, %d", (*pc), c); return
}
a) 7654, 7654
                                                  b) Some Address Value, 7655
                                                  d) 7655, 7655
c) Some Address Value, 7654
200) Are both of these code segments functionally same?
a) int *ptr = NULL;
b) int *ptr;
*ptr = NULL;
a)Yes
                                                  b) no
201) When following piece of code is executed, what happens?
b=3; a =
   b++;
a) a contains 3 and b contains 4
                                          b) a contains 4 and b contains 4
c) a contains 4 and b contains 3
                                          d) a contains 3 and b contains 3
202) What will happen? #include<iostream.h>
void main()
{
    disp();
void disp()
    cout<<"in disp";
                                                          b) compilation error
   a) warning
   c) neither compilation nor warning
                                                          d) runtime error
203) Malloc can call constructor, new can not call constructor. -
   a) True
                                          b) False
204) Will the following C+ + program compile and link, or we need to include a header file like stdio.h or
   iostream? int main()
{
return 0;
      a) It will compile but not linked
                                                       b) It will not compile
      c) It will compile, link but fail at runtim
                                                       d) It will compile, link and run successfully.
205) Will the following C++ program compile and link, or we need to include a header file like stdio.h or
   iostream?
int main()
{
}
        a) It will compile but not linked
                                                          b) It will not compile
                                                         d) It will compile, link and run successfully.
        c) It will compile, link but fail at runtime.
```



206) What kind of error we will get in the following int main () { 0; return 0;	code? Compilation Error or LinkingError?	
}		
a) It will compile but not linked b) It will compile, link but fail at runtime.	b) It will not compiled) It will compile, link and run successful	
.) It will compile, link but fall at funtime.	a) it will compile, link and run successiul	11)
207) Will the following code compile and link? int n {	nain ()	
10 + 5; return 0;		
a) It will compile but not linked	b) It will not compile	
c) It will compile, link but fail at runtime.	d) It will compile , link and run successfu	ıll
o,		
208) What kind of error we will get in the following	code? Compilation Error on Linking Error?	
int main ()		
{ i;		
return 0;		
}		
a) It will compile but not linked	b) It will not compile	
c) It will compile, link but fail at runtime.	d) It will compile , link and run successful	lly
<pre>209) What kind of error we will get in the following int main () { i = 0; return 0; }</pre>	code? Compilation Error or Linking Error?	
a) It will compile but not linkedc) It will compile, link but fail at runtime.	b) It will not compiled) It will compile , link and run successfull	у.
210) Inline functions are replaced at		
a) Run time b) Compile time	c) Debug time d) None of abo	V
	anywhere in the c++ code? niversal variables Global variables	
212) What is the value of sizeof(char)? a) 1 b) 2 c) 4	d) 8	
213) 214) If value has not type, then the pointer pointing a) Empty pointer b) Null pointer	g to this value will be known as c) Void pointer d) None of above	
215) Which arithmetic operation can be done in po	inter?	
a) Multiplication b) Division c)	Addition c) None of above	



216) Which operat a) :=	tor is used for b) =	comparing tw c) =:	o variables d) ==		
217) Can #define a a) Yes	accept parame b) No				
218) What is the si a) 1 byte	ize of int data b) 2 byte		system? byte	d) 8 by	yte
219) How we defin a) #constant	ne our name fo b) #d		c) #define_	constant (d) #constant_define
220) \r is used for a) carriage return	b) ne	w line	c) end of th	ne line	d) vertical tab
221) C++ programs a) start()	s must contair b) main()		tem()	d) progr	ram()
222) Reference is I a) Pointer	ike a b)Structure	c)Arı	тау	d)None	of above
223) Which is not C a) auto	C++ storage cla b) register	ass?	c) static		d) iostream
224) What will hap void main() { int *ptr=new int; *ptr=30; cout< <endl<< td=""><td></td><td>e<iostream.h></iostream.h></td><td></td><td></td><td></td></endl<<>		e <iostream.h></iostream.h>			
} a) compilation error	or b) rui	ntime error	c) w	varning	d) output : 30
225) What will hap #include <iostre for(int="" main()="" some="" statement:="" td="" void="" x="0;x<9;x++" {="" }="" }<=""><td>am.h> -) s</td><td></td><td></td><td></td><td></td></iostre>	am.h> -) s				
a) warning	b) compilation	on error	c) neither	warning nor	r compilation error
226) What will hap #include <iostreavoid main()<="" td=""><td>=</td><td></td><td></td><td></td><td></td></iostreavoid>	=				



```
for(int x=0;x<4;x++)
int j=4;
for(x=0;x<9;x++)
j++;
                  b) neither warning nor compilation error
                                                                     c) compilation error
  a) warning
227) Will following code work?
  #include<iostream.h>
void main()
const int num;
int const *ptr=#
  a) No
                   b) Yes
228) Will following code work?
  #include<iostream.h>
void main()
const int num=60;
int const *const ptr=#
                                        b) Yes
  a) No
229) Will following code work?
  #include<iostream.h>
const int * fun()
static int num=40;
return #
}
void main()
int *ptr;
  ptr=fun();
  a) Yes
                                   b) No
230) Will Following code work?
  #include<iostream.h>
const int * fun()
static int num=40;
return #
```



```
void main()
const int *ptr;
ptr=fun();
a) Yes
                                          b) No
231) Will following code work?
  #include<iostream.h>
const int * fun()
static int num=40;
return #
}
void main()
int *const ptr=fun();
a) Yes
            b) No
232) Will following code work?
  #include<iostream.h>
int * const fun()
static int num=40;
return #
void main()
int * const ptr=fun();
a) Yes
            b) No
233) Will following code work?
  #include<iostream.h>
int * const fun()
static int num=40;
return #
}
void main()
const int * ptr=fun();
}
a) No
                   b) Yes
234) What will happen? #include<iostream.h>
void main()
{
```



```
int num=40;
  int &ref;
  ref=num;
ref++;
cout<<endl<<num;
}
                                                c) output 40
                                                                             d) output 41
  a) error
                   b) warning
235) What will happen? #include<iostream.h>
void main()
{
const int num2=50;
int &ref=num2;
}
                          b) it will work
                                                       c) error
  a) warning
236) What will happen?
  #include<iostream.h>
void main()
{
int num2=50;
const int &ref=num2;
}
  a) it will work
                              b) error
                                                            c) warning
237) Will following code work?
  #include<iostream.h>
void main()
int &ref=40;
  a) No
                          b) Yes
238) Will following code work?
    #include<iostream.h>
void main()
const int &k=400;
a) Yes
                   b) No
239) What will happen?
#include<iostream.h>
int * const fun()
int num=40;
return #
void main()
const int * ptr=fun();
```



```
}
a. warning
                        b) error
                                              c) neither warning nor compilation error
240) The new operator
 a) Obtains memory for variable
 b) Returns the memory to the operating system
 c) Creates a variable called new
 d) returns the information about currently available memory in the system
 241) For the object for which it was called, a const member function (enhancement)
 a) can modify both const and non-const member data
 b) can modify only const member data
 c) can modify only non-const member data
 d) can modify neither const or non-const member data
 e)
                                                  Oops
 1) Copy Constructor is called when
    a) Object is initialized using another object
                                                         b) Object is assigned to another object
    c) A and B both
                                                        d) none of the above
 2) What is the output?
    #include<iostream.h>
 class myclass
 public: static
    int
    counter;
 };
 Int
    myclass::counter;
    void main()
 {
  cout << myclass::counter;
                               b) compilation error "static member must be initialized"
  a) output 0
                               d) output garbage value
  c) Linking error
 3) Use the following code to answer the
    question Class Z {
      public:
       void def(char
    a);
                int
    ghi();
             private:
       char j;
         int
    k; };
  Which of the following is legal in a program that uses this class, after the following declaration:
 Zx;
 a) x.ghi();
                            b) x.i = 'd';
                                                                        d) None of the above is legal
                                                  c) Z.ghi();
```



PG DAC Feb 20 Oops with C++ Question Bank

- 4) How does a object refer to itself?
- a) By passing itself to a constructor with itself as the parameter
- b) There is no way for a class to refer to itself
- c) By pointing to another class just like this one
- d) By using the this pointer
- 5) Which of the following is not required in a class that contains dynamic allocation?
- a) The copy constructor
- b) A constructor that copies variables into private variables

b) c) Destructor

d) All of the above are required

```
6) What is the output? #include<iostream.h>
class X
{ intnt j; public: X()
{
    this->j=0;
X(int n)
    this->j=n;
X(const X &rhs)
    this->j=rhs.j;
}
};
void main()
{
Χ
  x1,x2
   (5); X
  x3(x2
  );
```

- a. 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.
- **b.** It will fail during compilation because the copy constructor is attempting to use a const reference to modify a member variable.
- **c.** It will compile. Upon execution, the default constructor 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.
- **d.** It will compile. Upon execution, the default constructor for 'X' will be called once, and then the copy constructor will be called twice with last call being used to assign x1=x3.
- 7) Overloading is otherwise called as
- a) virtual polymorphism

x1=x3;

}

b) ad-hoc polymorphism

- c) transient polymorphism
- d) pseudo polymorphism.
- 8) Here is a function prototype and some possible function calls int day_of_week(int year,int month=1,int day=1);

 //Passible function calls

```
//Possible function calls
```



PG DAC Feb 20 Oops with C++ Question Bank

```
Cout<day of week(1995);
Cout << day_of_week (1995,10);
Cout << day_of_week(1995,10,4);
How many of the function calls are legal?
a) 1 of them is legal
                                                 b) 2 of them is legal
c) 3 of them is legal
                                                 d) all of them are legal
9) Can we have a private constructor in a class?
a) yes
            b) no
                           c) no, only private functions are possible
                                                                               d) none of the above.
10) #include<iostream.h> class Alpha
{
public:
char data[10000];
Alpha();
~Alpha();
};
class Beta
{
public:
  Beta(
  )
    n=0;
} void
  FillData(Alpha
  a); private: int
  n;
};
How do u make the above sample code more efficient?
a) if possible, make the constructor for Beta private to reduce the overhead of public constructors
b) change the return type in FillData to int to negate the implicit return conversion from "int" to
   "void"
c) make the destructor for Alpha virtual
d) pass a const reference to Alpha in FillData
11) What is the
  output?
  #include<iostream.
  h> class Sample
{
public:
  int
  *ptr;
  Sampl
  e(int
  i)
    ptr=new int(i);
```

~Sample()



```
{
    delete ptr;
void PrintVal()
    cout<<"The value is "<<*ptr;
}
};
void SomeFunc(Sample x)
cout<<" Say I am in somefunc "<<endl;</pre>
void main()
Sample s1=10;
   SomeFunc(s1);
s1.PrintVal();
                                                   b) say I am in somefunc Null pointer
a) say I am in somefunc the value is 10
                                                   d) runtime error
c) assignment (runtime error)
12) What is the output?
  #include<iostream.h>
class obj
{
public:
  obj(
  )
{
    cout<<"in";
~obj()
    cout<<"out";
}
void main()
obj A,B;
    obj D;
  0
   Ε
a) in in in out out out out
                                          b) in in in out in out out out
c) in in out out in in out out
                                          d) in in out out in out in out
```



```
13) What will be the output?
#include<iostream.h>
  #include<string.h>
class A
{
int code;
  char
  name[20
  ]; public:
  A()
{
    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;</pre>
void main()
{
Α
  obj1(20,"AAA
  "); A
  obj2(obj1);
  obj1.show();
  obj2.show();
a) code=20 name= AAA for first and garbage value for second
b) code =20 name =AAA for both
c) Error: can not assign one object to another.
d) will not compile
14) What is the
  output?
  #include<iostream.
  h> class test
{
```



```
int x;
     publi
     c:
   test(int y)
       x=y;
   int getX()
       int x=40;
       return this->x;
  }
  };
  void main()
   test a(10);
   cout<<a.getX()<<endl;
  compilation error
  a) 10
                             b) 40
                                                   c) none of the above
  15) What will
     happen
     #include<iostream.
     h> class name
  {
  public:
     name(
     )
       cout<<endl<<"in def con\n";
   name(name n)
  cout<<endl<<"in copy con\n";
  };
  void main()
   name n1;
   name n2(n1);
a) output infinite "in copy con"
                                               b) output "in def const in copy con";
c) compile error
                                              d) run time error.
16) What will happen
     to the following
     code?
  #include<iostream.h>
     class name
```



PG DAC Feb 20 Oops with C++ Question Bank

```
public:
name(name &ref)
    cout<<endl<<"in copy con\n";
}
};
void main()
name n1;
name n2(n1);
                                 b) compile error
                                                               c) linking error
a) output "in copy con"
                                                                                       d) runtime error
17) What is the output?
  #include<iostream.h>
class myclass
{
public: static
  int
  counter;
};
Int
  myclass::counter;
  void main()
{
cout << myclass::counter;
                           b) compilation error "static member must be initialized"
a) output 0
c) Linking error
                           d) output garbage value
18) What will happen to following code?
#include<iostream.h>
  class SomeClass
  b
  li
  c:
SomeClass()
cout<<endl<<"in SomeClass Def.Const\n";
~SomeClass()
cout<<endl<<"in SomeClass Destructor\n";
  }
  }
```

void main()



```
SomeClass *s1=new SomeClass;
  a) output "in SomeClass Def.Const"
  b) Runtime error because of memory leak.
  c) output "in SomeClass Def.Const in SomeClass Destructor"
  d) compilation error because of incorrect syntax of 'new'
  19) What is the
     output?
     #include<iostream.
     h> class myclass
  public:
  static int counter;
  };
  void main()
   cout<<myclass::counter;
  a) output 0
                      b) compilation error
                                                   c) Linking error
                                                                          d) output garbage value
  20) The copy constructor would take a parameter by reference only
  a) True
                      b) False
  21) The default access scope for a method in a C++ class is
  a) Private
                             b) Public
                             d) Default
  c) Protected
  22) Where does memory get allocated for a static data members of a class
  a) Code/text
                            b) Stack
  c) Heap
                            d) Data
   23) Namespaces
  a) Provide a logical grouping of objects
  b) Provide a logical grouping of classes
  c) Provide a physical grouping of objects
  d) Provide a physical grouping of classes
  24) class Foo
     int i;
  };
  In the above sample, what is the member access specifier of the member data "i"?
                                            c) protected
  a) default
                      b) virtual
                                                                  d) private
                                                                                        e) public
25) A member function can always access the data
a) in the object of which it is a member
                                                              b) in the class of which it is a member
c) in any object of the class of which it is a member
                                                              d) in the public part of its class
```



PG DAC Feb 20 Oops with C++ Question Bank

26	i) which among the function	e following type of po	ointer is u	ised to represei	nt an ob	ject that	invokes a m	ember
	a) void pointer	b) null point	er	c) this pointer		d) base p	oointer	
	27) Which among belongs	the following operat	tor is use	d to identify the	e class t	o which a	member fu	nction
a)	ĺ	b) []	c) <u>::</u>	ones of Cura	d) .*			
	a) iostream	following is the defar b) standard	c) std	space of C++!	d) stdio)		
	29) What operator destructor?	is prepended onto t	he memb	per function nai	me to in	dicate th	at the functi	on is a
	a) &	b) *	c) ~		d) ::		e) –	
	 30) Which one of the following statements is true about constructors and destructors? a) Both explicitly declared constructors and explicitly declared destructors are required in a class. b) Neither constructors nor destructors can take parameters. c) In a given class, constructors are always required, but destructors are not. d) Constructors can take parameters, but destructors cannot. e) It is illegal to define either a constructor or a destructor as virtual 							
	31) A const object a) true	can access only con b) False	st functio	on				
	a) Destructor is cab) By default destrc) Destructor can	statement/s for designed when object good to be overloaded tance base class designed be virtual	es out of d by comp	oiler	lerived (class		
	a) When an object b) When object is p	cor is called in case is initialized using an passed to a function returned from a func	and colle	cted in another	-	oject		
	34) What is the output? #include <iostrea h=""> class myclass {</iostrea>							
	public: void myclass()							
	{							
	cout< <endl<<'< td=""><td>"in myclass def\n";</td><td></td><td></td><td></td><td></td><td></td><td></td></endl<<'<>	"in myclass def\n";						
	myclass(int k)							
	l							

cout<<endl<<"in param const\n";</pre>

}



```
};
void main()
myclass m1, m2(30);
a) output "in param const "
                                          b) output "in myclass def in param const"
c) compilation error
                                          d) runtime error
35) Argument of copy constructor is object of same class.
                              b) false
a) true
36) copy constructor is called whenever object is initialized using another reference.
                              b) false
a) true
37) What will happen to the following?
#include <iostream.h>
class myclass
static int
  cnt;
  public:
  static
  void
  disp()
{
    cout<<this->cnt;
}
};
void main()
myclass::disp();
a) output 0
                   b) linker error
                                           c) output garbage value
                                                                        d) compilation error
38) #include<iostream.h>
  class myclass
{
public:
void myclass()
{
    cout<<endl<<"in myclass def\n";</pre>
myclass(int k)
    cout<<endl<<"in param const\n";</pre>
}
};
void main()
myclass m2(30);
```



a) output " in param c	onst "	b) compilation error	c) runtime error	d) linker error		
39) A is a special member function used to initialize the data members of a class.						
40) The default acces	40) The default access for members of a class is					
41) Member function normally made		re normally made	_ and data members of	a class are		
42) The three member	er access spe	cifiers are,,	and			
43)	is called whe	en we initialized one object	using other object.			
44) The size of a class	with no data	a members and member fur	nctions is byt	e.		
45) key	word if used	, constructor will not be ava	ailable for conversion.			
46) Destructor can be a.true b.fals						
47) if the main function [mho a; a=a- a;	on is coded a	IS				
Then output will be a) There was There was c) There was a certain		was a certain man.	b) Nothing d) a run time error			
48) if the declaration mho operator - mho(y) Is replaced by mho operator - mho(&y) And main function is coded as mho a; a=a-a; Then the output will b	s oe		h) Thorowas Thorow	uac a contain man		
a) There was There c) There was a certa		e was a certain man	b) There was There v d) compile time error			
b) A constructor is call	lled at the ting led at the ting led at the ting	ne of declaration of an object of use of an object. ne of declaration of a class.	ect.			

- 50) Which one of the following options is correct?
- a) Friend function can access public data members of the class.
- b) Friend function can access protected data members of the class



PG DAC Feb 20 Oops with C++ Question Bank

- c) friend function can access private data members of the class
- d) All of the above
- 51) A copy constructor is invoked when
- a) a function returns by value
- b) an object is passed by value to a function
- c) a function is returned by reference
- d) an object is passed by reference to a function
- 52) The dot operator(or class member access operator) connects the following two entities reading from left to right
- a) A class member and a class object

b) A class object and a class

c) A class and a member of that class

d) A class object and a member of that class

Operator Overloading

- 1) Operator= can be overloaded using
 - a) friend function
- **b) member function** c) both A and B
- d) none of the above
- 2) Which operators can be overloaded as non-member function?
 - a) ()
- b) []
- c) =
- d) +
- 3) Why is the extraction operator (>>) generally declared as a friend?
- a) To allow the class to be read in a specific format.
- b) To allow the operator to have access to private variables of the class
- c) Since declaring the extraction operator part of the class will result in a
- d) compilation error
- 4) In C++ programs the operation of the assignment operator and that of the copy constructor are
- a) similar except that the copy constructor creates a new object
- b) different except that they both copy member data.
- c) both (1) and (2)
- d) None of the above.
- 5) The next three questions are based on the following program segment #include<iostream.h> class

```
mho
{
public:
mho(void)
{
    cout<<"There was";
mho(mho &x)
    cout<<"a certain man";
mho operator-(mho y)
{
    mho ohm;
```

return ohm;



```
}
};
if the function main is coded as
  mho a , b; then output will
  besss
a) There was There was
                                  b)Nothing
                                  d) There was a certain man There was a certain man.
c) a runtime error
6) which of the following operators
  cannot be overloaded?
                                         c) ?:
                                                       d) No such operator exists
  a) >>
                           b) ++
7) What will happen?
  #include<iostream.h>
class opOverload
public:
    bool operator==(opOverload temp);
bool opOverload::operator==(opOverload temp)
    if(*this==temp)
            cout<<"Both are same objects"<<endl;
            return true;
  }
    els
  e
    {
            cout<<"Both are different"<<endl;
            return false;
void main()
  opOverload a1,a2;
    a1==a2;
a) compile time error
                                  b) Runtime error
                                                               c) No error
8) What is the result?
  #include<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);
    cout<<endl<<sum(c2);
}
a) Error: can't access the member function without a reference to the class
b) Error: a non-member function can not access the data member of the class
c) 30
          80
d) Garbage value.
9) Which operators can not be overloaded using friend function?
a) ()
                   b) =
                                        c) []
10) virtual parent class is used for what
Ans: To solve "Diamond Problem" in hybrid inheritance
11) Which of the following statements is true?
a) Conversion operator function can have a void return type.
b) Conversion operator function must be written in destination
c) Conversion operator function does not accept any argument
d) Conversion operator function can be a friend function.
12) In which operator overloading, compiler implicitly passes zero as an argument?
a) Post increment/decrement operator
                                         b) Pre increment/decrement operator
c) both pre and post
                                         d) subscript operator
13) In C++ programs the operation of the assignment operator and that of the copy constructor are
a) different except similar except that the copy constructor creates a new object
b) that they both copy member data.
c) both (1) and (2)
d) None of the above.
14) We can't do anything in source when converting from user defined to primitive type.
a) True
                     b) False.
15) When you overload assignment operator using friend function 2 arguments are required.
a) true
                    b) false
```

- 16) Which of the following statements is false?
- a) Conversion operator function must return a value
- b) Conversion operator function must be written in destination



PG DAC Feb 20 Oops with C++ Question Bank

- c) Conversion operator function does not accept any argument
- d) Conversion operator function must be a member function.
- 17) Which of the following operators cannot be overloaded?
- a) []
- b) ++
- c) ?:
- d) *
- 18) When overloading a unary operator using a friend function
- a) requires no argument
- b) requires one argument
- c) requires tow argument
- d) take a defult argument
- 19) Operator function is declared in the
- a) private section in the class
- b) public section in the class
- c) protected section in the class
- d) Outside the class

Inheritance

```
1) What will happen to following code?
#include<iostream.h>
    class SomeClass
   public:
    SomeClass()
    cout<<endl<<"in SomeClass Def.Const\n";</pre>
Consider the class inheritance:
    class B
    {
    public:
       B();
   B(int nn);
        void
   f();
   void g();
    private:
    int n;
    class D: public B
    public:
    D(int nn, float dd);
    void h();
                    private:
    double d;
    Which of the following functions can be invoked by an object of class D?
   a) f()
                            b) g()
                                                   c) h()
                                                                          d) All of the above
```



PG DAC Feb 20 Oops with C++ Question Bank

```
2) What will be the output?
  #include<iostream.h>
class base
public:
    base()
    cout<<"\nIn base const\n";</pre>
    print();
    void disp()
  {
    print();
    virtual void print()
            cout<<endl<<"In base print\n";
};
class derived:public base
public:
    derived()
            cout<<endl<<"In derived const\n";
    void print()
            cout<<endl<<"In derived print\n";</pre>
};
void main()
    derived d1;
    d1.disp();
}
a) In base const In derived const In base print In derived print
b) In base const In derived const In derived print In derived const
c) In base const In base print In derived print In derivd const
d) In base const In base print In derived const in derived print
3) What is true about c++ class and c++ struct
a) inheritance with c++ struct can be done
b) both can have member functions
c) c++ class members are private by default whereas c++ struct members are public by default
d) all of the above
4) Given the class declaration:
```

class D : public class B {/*...*/} which of the following is true?



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- a) Public members of B become public members of D
- b) Private members of D become public members of B

class B:public A

c) Protected members of B become public members of D

•	s of B become public men		
5) If parent class ha	as a method which is non-	virtual, and child class o	defines the same method. It is called
a) overloading	b) overriding	c) redefinition	d) None of these.
6) Casting a base cl a) Upcasting	ass pointer to derived cla b) Downcasting	ss pointer is called as _ c) abstraction	d) None of the above.
•	om being present in an ob		s, u can prevent multiple copies of e objects by declaring base class
a) public	b) protected	c) virtual	d) private
8) #include <iostrea< td=""><td>nm.h> class Base</td><td></td><td></td></iostrea<>	nm.h> class Base		
<pre>public: int a; protecte d: int b; private: int c; }; class Derived:Base { int d; friend class Fri }; class Friend {</pre>	end;		
Derived derive };	d;		
	which of the following va b) a, b and d	riables can be accessed c) only a	in "Friend " ? d) error
9) #include <iostreaclass a="" a;="" cout<<"from="" fine"="" fun()="" int="" public:="" td="" void="" {="" }="" };<=""><td></td><td></td><td></td></iostreaclass>			



```
{
class C:virtual A
class D:public B,C
void main()
    Dd;
    d.fun();
What will be the output of this program?
a) from fun
                           b) compile time error
                                                                c) run time error
                                                                                       d) No output
10) #include<iostream.h>
class base
public:
    base()
            cout<<"\nbase def\n";
            base::disp();
    void disp()
            cout<<"base disp\n";
class sub:public base
public: sub()
    cout<<"sub def\n";
    base::disp();
void disp()
    cout<<"sub disp";</pre>
}
};
void main()
base *b=new base;
a) output "base def
                        base disp"
                                                     b) compilation error
c) output "base def base disp sub def sub disp"
                                                    d) output "base def sub def base disp sub disp "
```



```
11) What is the output?
  #include<iostream.h>
  class base
{
public:
    base()
    {
           cout<<"\nbase def\n";
    void disp()
            cout<<"base disp\n";
};
class sub:public base
public: sub()
    cout<<"sub def\n";
    sub::disp();
}
void main()
sub s;
a) output "base def
                      sub def"
b) compilation error
c) output "base def base disp sub def "
d) output "base def
                       sub def
                                  base disp "
e) compilation error "disp not available in sub"
12) #include<iostream.h>
  class base
public:
  base()
    {
    cout<<"\nbase def\n";
    sub::disp();
    void disp()
           cout<<"base disp\n";
};
class sub:public base
{
public:
```



PG DAC Feb 20 Oops with C++ Question Bank

```
sub()
    {
           cout<<"sub def\n";
    void disp()
            cout<<"sub disp\n";
};
void main()
    sub s;
                                                      b) output "base def sub disp sub def"
a) compilation error
                                                      d) output "base def base disp
c) output "in base def
                         sub def sub disp "
13) #include <iostream.h>
  class base
public: base()
  cout<<"base def.\n";
                          disp();
}
};
class sub:public base
public: sub()
    cout<<"sub def\n";
void disp()
    cout<<endl<<"in sub disp\n";
}
void main()
{
base *b=new sub;
}
a) compilation error
b) output "in base def in sub def in sub disp"
c) output "in base def in sub disp in sub def"
d) output "in sub def
                          in base def
                                         in sub disp"
14) When child class object is assigned to parent class object, object slicing takes place.
a) True
                           b) False
```

15) Private members can be inherited but not accessible in derived class.



```
a) True
                           b) False
16) #include <iostream.h>
  class base
{
public: base()
  cout<<"base def.\n";
                          disp();
} void
  disp()
    cout<<"\nbase disp\n";
};
class sub:public base
public: sub()
    cout<<"sub def\n";
} void
  disp()
{
    cout<<endl<<"in sub disp\n";
}
};
void main()
base b=new sub;
}
a) compilation error
b) output "in sub def
                         in base def
                                      in base disp"
c) output "in base def
                         in sub def
                                       in sub disp"
d) output "in base def
                         in base disp
                                           in sub def"
17) What is the output?
  #include <iostream.h>
  class base
{
public:
  base()
    cout<<"base def.\n";
    disp();
    }
    void disp()
            cout<<"\nbase disp\n";</pre>
};
class sub:public base
```



```
public:
  sub()
    {
            cout<<"sub def\n";
    void disp()
            cout<<endl<<"in sub disp\n";</pre>
};
void main()
    sub();
a) compilation error
b) output "in sub def
                         in base def in base disp"
c) output "in base def in sub def
                                       in sub disp"
d) output "in base def in base disp
                                           in sub def"
18) #include <iostream.h>
  class base
{
public:
    base()
    cout<<"base def.\n";
    disp();
    }
    void disp()
            cout<<"\nbase disp\n";
class sub:public base
{
public:
sub()
    cout<<"sub def\n";
void disp()
{
}
    cout<<endl<<"in sub disp\n";
}
};
void main()
{
base();
a) output "base def. base disp"
b) output "base def sub def sub disp "
```



PG DAC Feb 20 Oops with C++ Question Bank

- c) output "base def sub def base disp"
- d) compilation error "base() function not available "
- 19) When child class object is assigned to parent class object it is called as

```
20) #include<iostream.h>
  class Base
{
  int static i;
  public:
     Base()
};
class Sub1:public virtual Base
class Sub2:public Base
  }
class Multi:public Sub1,public Sub2
void main()
    Multi m;
In the above program, how many times Base class constructor will be called?
a) 1
                   b) 2
                                                                d) None
```

21) When two or more objects are derived from a common base class, u can prevent multiple copies of the base class from being present in an object derived from those objects by declaring base class when it is inherited.

- a) public
- b) protected
- c) virtual
- d) private

```
22) class A
   {
     public:
     A(); void ~A();
}
class B : public A { };
```

What is WRONG with the class declarations above?

- a) Class B must explicitly define a constructor.
- b) The destructor in "A" cannot have a void return type.
- c) Nothing is wrong with the code above.
- d) Class B must define a destructor
- e) "A" must provide a copy constructor in order for it to be used as a base class.



```
23)
       class X { int i; protected:
float f; public: char c;
  };
  class Y: protected X { };
  Referring to the sample code above, which one of the following data members are accessible from class
     Υ?
     a) c only
                      b) f and c only
                                             c) i and c only d) i and f only
                                                                                   e) i, f, and c
  24) class
     IntArra
     yRc:
     public
     IntArra
     у;
  What does the sequence of tokens ": public IntArray;" in the code above indicate?
  a) It is the indicator that IntArray is derived from IntArrayRc class.
  b) It is a scope resolution operator that states that IntArrayRc is a sub-class.
  c) It is a scope resolution operator that states that IntArray is a super class.
  d) It is the indicator that IntArrayRc is derived from IntArray base class.
  e) It is the indicator for enforcing overloading of the IntArrayRc class from any IntArray class.
25) A class in C++ would be assumed as abstract if it has at least one virtual method
a) true
               b) False
26) What will be the output?
     #include <iostream.h>
  class grandparent
  public:
   grandparent(int k)
       cout<<k<<endl;
   grandparent()
       cout<<0<<endl;
  class parent1:virtual grandparent
  {
  public:
   parent1(int j):grandparent(420)
   {
       cout<<j<<endl;
  class parent2:virtual grandparent
  public:
   parent2(int j):grandparent(420)
```



```
cout<<j<<endl;
 }
};
class child:parent2,parent1
public:
 child(int m):parent1(100),parent2(200)
     cout<<m<<endl;
};
void main()
 child s(300);
} s
a) 420 100 200 300
                                                         c) 0 200 100 300
                           b) 420 200 100 300
                                                                               d) 0 420 200 100 300
27) What will be the output?
   #include<iostream.h>
class base
public: base()
 {
     cout<<"\nIn base const\n";
     print();
 void print()
     cout<<endl<<"In base print\n";
};
class derived:public base
public:
derived()
            cout<<endl<<"In derived const\n";
     void print()
            cout<<endl<<"In derived print\n";</pre>
};
void main()
     derived d1;
a) In base const In derived const In derived print
b) In base const In derived print In derived const
c) In base const In base print In derived print In derivd const
d) In base const In base print In derived const
```



```
28) What will be the output? #include <iostream.h>
class grandparent
public:
    grandparent(int k)
    cout<<k<<endl;
class parent1:virtual grandparent
public:
    parent1(int j):grandparent(420)
    cout<<j<<endl;
class parent2:virtual grandparent
public:
    parent2(int j):grandparent(420)
    cout<<j<<endl;
class child:parent2,parent1
public:
    child(int m):parent1(100),parent2(200)
    cout<<m<<endl;
};
void main()
    child s(300);
a) 420 100 200 300
                                  b) 420 200 100 300
c) compilation error
                                  d) 0 420 200 100 300
29) A class is called as abstract base class if
  it has a _____function.
30) What is the output?
  #include<iostream.h>
class professor
public:
    professor()
```



```
cout<<endl<<"professor";
    }
};
class researcher
public:
    researcher()
           cout<<endl<<"researcher\n";
};
class teacher:public professor
public:
    teacher()
           cout<<endl<<"teacher";
};
class myprofessor:public teacher,public virtual researcher
public:
    myprofessor()
           cout<<endl<<"myprofessor\n";
};
void main()
    myprofessor obj;
a) professor researcher teacher myprofessor
                                                       b) researcher professor teacher myprofessor
c) myprofessor teacher researcher professor
                                                       d)myprofessor researcher professor teacher
```

- 31) What is the order of execution of constructors in the hierarchy involving virtual base classes?
- a) i. virtual base class constructor, in the order of their inheritance ii.non-virtual base class constructor, in the order of their inheritance iii. derived class constructor iv. constructors of member objects, in the order of their declaration.
- b) i. virtual base class constructor, in the order of their inheritance
- ii. derived class constructor.iii. constructors of member objects, in the order of their declaration iv. non-virtual base class constructor, in the order of their inheritance.
- c) i. virtual base class constructor, in the order of their inheritance
- ii. non-virtual base class constructor, in the order of their inheritance iii. constructors of member objects, in the order of their declaration iv. derived class constructor
- d) i. derived class constructor

ii. constructors of member objects , in the order of their declaration



inheritance iv. virtual inheritance.	al base class constructo			
32) enable previouslyproven and		es time in developmer	nt, and encourages using	
33) A class which has pu	re virtual function is ca	lled as	-	
34) When address of chi takes place.	ld class object is assign	ed to parent class poir	nter or reference, object s	licing
a) True	b) False			
35) Protected members a) True	can be inherited but no b) False	ot accessible in derived	d class.	
36) In public inheritance in child class		ublic members of pare	ent class becomes	and
37) Which of the followi	•			
a) Protected	b) Public	c) Private	d) Friend	
38) How "Late binding" is a) Using C++ tables c) Using Indexed virtual to		b) Using Virtual tabl d) Using polymorphi		
39) Which of the following a) Declaring it abstract used) Declaring it abstract used) Making at least one med) Making at least one med)	sing static keyword. sing virtual keyword. ember function as virtu	ual function.		
·	specified for a derived class.	class, objects of the d	lerived class will use the per functions or objects o	f derived
class. c) An object of derived cl d) In public inheritance tl the derived class	·		ers of base class ne public for the function	s outside
41) Which of the following a) class b) me	ng cannot be used with ember functions	the keyword virtual? c) constructor	d) destru	ctor
42) Which of the followin a) Virtual function	ng concepts is used to ir b) Operator function	•		۱
43) Which inheritance typ Class A :public X, pub {}	=	iven below?		



PG DAC Feb 20 Oops with C++ Question Bank

- a) Multilevel inheritance
- b) Multiple inheritance
- c) Hybrid inheritance
- d) Hierarchical inheritance
- 44) Assume a class Derv that is privately derived from class Base. An object of class Derv located in main() can access
- a) public member of Derv
- b) protected members of derv
- c) public member of Base
- d) protected members of Base
- 45) When both base and derived class contain constructors & destructor's which of the following choice is correct
- a) Both constructors & Destructors are executed in reverse order of derivation.
- b) Both Constructors & Destructors are executed in their order of derivation.
- c) Constructors are executed in their order of derivation and Destructors are executed in the reverse order of derivation
- d) Constructors are executed in reverse order of derivation and Destructors are executed in their order of derivation

Late Binding

```
1) include<iostream.h>
  class myclass
public:
    virtual void
  f2()
            cout<<endl<<"in f2\n";
    virtual void f1()
            cout<<endl<<"in f1\n";
    void fun()
    int *ptr=(int*)this;
    ptr=(int *)*ptr;
    ptr=(int*)*ptr;
};
void main()
  myclass m;
    m.fun();
when fun() function is over, what does ptr stores?
a) address of virtual poiner
                                  b) address of f1
                                                          c) address of f2
                                                                                d) none of the above
2) What is the output?
  #include<iostream.h>
class base
```



```
{
public:
    virtual void disp()
            cout<<"base disp\n";
};
class sub1:public base
{
public:
    void disp()
            cout<<"sub1 disp\n";
};
class sub2:public sub1
public:
    void disp()
            cout<<endl<<"sub2 disp\n";
};
void main()
   base *b;
    sub1
  s1,*s2;
    sub2
  s3,*s4;
    b=new base;
    s2=dynamic_cast<sub1*>(b);
    if(s2)
s2->disp();
  else
            cout<<"failed\n";
b=&s3;
    s4=dynamic_cast<sub2*>(b);
    if(s4)
    {
            s4->disp();
  }
            else
            cout<<"failed\n";
  }
```



- PG DAC Feb 20 Oops with C++ Question Bank c) sub2 disp sub2 disp b) compilation error a) sub1 disp sub2 disp d) failed sub2 disp 3) Which of the following can be virtual? a) constructors b) destructors c) static functions d) None of the above 4) VTABLE contains a) addresses of virtual functions b) addresses of virtual pointers d) None of the above
- c) address of virtual table 5) What will be the output? #include<iostream.h> class base { public: int bval; base() { bval=0; **}**; class deri:public base public: int bval; deri() bval=1; void SomeFunc(base *arr,int size) for(int i=0;i<size;i++,arr++)</pre> cout<<arr->bval<<"\t"; cout<<endl; void main() base BaseArr[5]; SomeFunc(BaseArr,5); deri DeriArr[5]; SomeFunc(DeriArr,5); } a) 00000 1010 **b)** 01101 01010 **c)** 01011

11010



PG DAC Feb 20 Oops with C++ Question Bank

```
d) 10100
11011
6) What is the output?
  #include<iostream.h>
class base
public:
    virtual void
  f1()
};
class sub:public base
  }
void main()
    sub s;
    cout<<sizeof(s)<<endl;
                    b) 1 size of empty class is always 1
a) 0
                                                                         c) 4
                                                                                               d) 5
7) What is the output?
  #include<iostream.h>
class base
public:
            virtual
  void disp()
            cout<<"base disp\n";
class sub1:public base
public:
    void disp()
            cout<<"sub1 disp\n";
};
class sub2:public sub1
{
public:
    void disp()
            cout<<endl<<"sub2 disp\n";
};
```

void main()



```
{
  base *b;
    sub1
  s1,*s2;
    sub2
  s3,*s4;
    b=&s1;
    s2=dynamic_cast<sub1*>(b);
    if(s2)
    {
            s2->disp();
  }
    els
  e
            cout<<"failed\n";
    s4=dynamic_cast<sub2*>(b);
    if(s4)
            s4->disp();
  }
    els
  е
    {
            cout<<"failed\n";
}
                               b) sub1 disp
a) Error
                                             sub2 disp
                              d) sub1 disp
c) sub1 disp
              failed
                                             sub1 disp
                                                                e) sub2 disp
                                                                               sub2 disp
8) What is the output?
  #include<iostream.h>
class base
public:
    virtual void disp()
            cout<<"base disp\n";
};
class sub1:public base
{
public:
    void disp()
            cout<<"sub1 disp\n";
};
class sub2:public sub1
```



```
{
public:
    void disp()
            cout<<endl<<"sub2 disp\n";
};
void main()
  base *b;
    sub1
  s1,*s2;
    sub2
  s3,*s4;
    b=&s3;
    s2=dynamic_cast<sub1*>(b);
    if(s2)
    {
            s2->disp();
  }
    els
  e
            cout<<"failed\n";
    s4=dynamic_cast<sub2*>(b);
    if(s4)
    {
            s4->disp();
  }
    els
            cout<<"failed\n";
a) sub2 disp sub2 disp
                                  b) sub1 disp sub2 disp
                                                                       c) failed sub2 disp
d) compilation error
                                  e) sub2 disp failed
9) Given the following code:
  #include<iostream.h>
class base
{
public:
  virtual
  void disp()
    cout<<endl<<"in base disp\n";
}
```



```
};
  class sub1:public base
  public: void disp()
  void print1()
     cout<<endl<<"in print1\n";
  }
  };
  void main()
  {
  base *b; sub1 s1,*s2,*s3;
  b=new base; s2=static_cast<sub1*>(b);
  s3=dynamic_cast<sub1*>(b); c
  out<<s2<<endl;
  cout<<s3<<endl;
}
                                                         b) s3 will contain NULL, s2 not null
a) s2 will contain NULL, s3 not null
c) both will contain NULL
                                                      d) both will contain Not NULL
10) What will be the output? #include<iostream.h>
  class base
  {
  public: virtual void
     disp()=0; base()
       disp();
  }
  class sub:public base
  {
  public:
  void disp()
       cout<<endl<<"in sub disp\n";
  }
  };
  void main()
  base *b=new sub;
                             b) output "in sub disp"
  a) compilation error
                                                                  c) linking error
                                                                                         d) runtime error
  11) What will be the output?
     #include<iostream.h>
  class base
  {
  public:
```



```
virtual void disp()
            cout<<endl<<"in base disp\n";
};
class sub:public base
public:
    void disp()
            cout<<endl<<"in sub disp\n";
    void print()
            cout<<endl<<"in print";
};
void main()
   base *b=new sub;
    b->disp();
  >print();
a) output "in base disp in print"
                                             b)output "in sub disp in print"
                                            d) output "in sub disp in base disp in print"
c) compilation error
12) #include<iostream.h>
  class myclass
{
public:
    virtual void f2()
            cout<<endl<<"in f2\n";
    virtual void f1()
            cout<<endl<<"in f1\n";
    void fun()
            int *ptr=(int*)this;
    ptr=(int *)*ptr;
    ptr++;
            ptr=(int*)*ptr;
};
void main()
   myclass m;
                    m.fun();
when fun() function is over, what does ptr stores?
```



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a) address of virtual poiner b) address of f1 c) address of f2 d) none of the above 13) Given the following code: #include<iostream.h> class base { public: virtual void disp() cout<<endl<<"in base disp\n"; } **}**; class sub1:public base { public: void disp() { cout<<endl<<"in sub1 disp\n"; void print1() { cout<<endl<<"in print1\n"; **}**; void main() base *b; sub1 s1,*s2,*s3; b=new base; s2=static cast<sub1*>(b); s3=dynamic_cast<sub1*>(b); cout<<s2<<endl; cout<<s3<<endl; } a) s2 will contain NULL, s3 not null b) s3 will contain NULL, s2 not null c) both will contain NULL d) both will contain Not NULL 13) The operator used for getting the type info object is a) Typeof b) Typeid c) Type d) Typeinf 15) All method invocations in C++ by default exhibit late binding a)True b) False 16) To get polymorphism for a class you have to mark your methods as b) Virtual c) Pure virtual a) Static d) Final 17) If a dynamic cast fails a) alt throws an exception b) Returns a null value c) Converts to desired type d) Can never say



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18) A constructor can be marked as virtual a)True b) False 19) What is the output? #include <iostream.h> class base { public: base() cout<<"base def.\n"; disp(); virtual void disp()=0; class sub:public base public: sub() { cout<<"sub def\n"; void disp() cout<<endl<<"in sub disp\n"; } **}**; void main() { base *b=new sub; } a) linker error b) compilation error c) output "in base def in sub def in sub disp" d) runtime error 20) #include<iostream.h> class first { int a; virtual void fun(){} **}**; What is the size of the class? (assume 16 bit architecture) a) 1 byte b) 2 byte c) 3 byte d) 4 byte 21) Virtual pointer (vptr) is initialized inside virtual function a) True b) False 22) If a class has 5 virtual functions, then 5 virtual tables will be created. a)True b) False 23) There is only one virtual table gets created per object. a)True b) False 24) In case of virtual functions all the objects of a class share virtual pointer.

a)True

b) False



```
25) #include <iostream.h> class base
{ public:
    base()
    {
            cout<<"in base def.\n";
            disp();
    }
    virtual void disp()
            cout<<endl<<"in base disp\n";
};
class sub:public base
{ public:
    sub()
    {
            cout<<"in sub def\n";
    void disp()
{
            cout<<endl<<"in sub disp\n";
};
void main()
  {
    base *b=new sub;
}
a) output "base def
                         sub def
                                      in sub disp"
b) compilation error
c) output "in base def in base disp sub def in sub disp"
d) output "in base def
                           in base disp
                                          in sub def"
26) #include <iostream.h>
  class base
public: base()
  cout<<"base def.\n";
                          disp();
virtual void disp()=0;
};
class sub:public base
public: sub()
    cout<<"sub def\n";
void disp()
```



{							
cout< <endl<<"in disp\n";="" sub="" td="" }<=""></endl<<"in>							
}; void main()							
{							
base *b=new sub;							
}							
a) linker error b) compilation error c) output "in base def in sub def in sub disp" d) runtime error							
14) In case of dynamic polymorphism, availability of child class object in a base pointer can be checke using either or							
15) Virtual pointer (vptr) points to virtual function. a)true b)false							
16) There is only one virtual table gets created for a class no matter how many instances are created.a) trueb) false							
17) Abstract class can not have non-virtual functions. a)true b) false							
File Handling							
 1) Difference between text and binary mode is based on a) How newline is treated b) How End Of File is represented c) How numeric data is stored d) all of the above 							
2) What is false about cin?							
a) object of istream b) represents standard input c) it is not a function d) it is used to read input from user's terminal							
3) 'ios' stream is derived from iostream							
a) true b) false							
4) The objects that correspond to the standard devices on the system include							
a) cin b) cout c) clog d) All of the above.							
5) Which of the following is the base class of C++ steam class hierarchy? a) istream b) iostream c) stream d) ios e) ostream							
6) Serialization is the process of							
a) Converting bytes to objects b) Converting objects to bytes							
c) Converting bytes to classes d)Converting classes to bytes							
7) Which is the proper prototype for overloading the ">>" operator for a class like Cpoint a) istream operator>>(istream, CPoint); b) istream operator>>(istream&, CPoint);							
c) istream& operator>>(istream&, CPoint); d) istream& operator>>(istream&, CPoint&)							



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-	extraction operator is True	used with cout. b) False		
9)	The class which allow	s us to read as we	ell as write in a file is _	·
-	Templates can be distinct header file b)		Templates ent through c) both A and B	d) templates can not be distributed at all
a) b) c)	Which of the following follows: template <class t=""> class Pair { } Pair < int> Pair<char> Pair < abc> (assuming All of the above are value)</char></class>	abc is a user defi	ned class)	te class, assuming the class is declared as
a)	The STL makes abund inheritance friend functions	ant use of	b) virtual functions d) None of the above	
-	Template classes can True	be inherited b) False		
cla { Rea	<pre>#include<iostream.h> ass obj T my_t; X my_x; public: { obj(T t,X x):my_t(t),m } }; eferring to the sample type T ? T operator T(){ return operator(T) {return m</iostream.h></pre>	y_x(x) code above which my_t;}	n one of the following b) T operator (is a valid conversion operator for the (T) const{return my_t;} () const{ return my_t;}
}; W a)	Given following class #include <iostream.h: <="" a="" cla="" class="" for<="" generate="" rite="" statement="" t1,="" td="" template="" this="" which="" {=""><td>> ss t2> class mycla n will direct a com r double and cha</td><td>ipiler to r respectively.</td><td></td></iostream.h:>	> ss t2> class mycla n will direct a com r double and cha	ipiler to r respectively.	

7) Which one support unknown data types in a single framework?

a) inheritance	b)virtual functions	c) abstract base class d) templates.					
8) Which one support unka) inheritance	known data types in a s b) virtual functions	single framework ? c) abstract base class	d) templates					
 9) A vector is an appropriate container if you a) Want to insert lots of new elements at arbitrary locations. b) Want to insert new elements, but always at the front of the container. c) Are given an index number and you want to quickly access the corresponding element. 								
10) An STL algorithm is a) A standalone function b) A Link between member c) a friend function of app d) a member function of a 11) Actual code for temple	that operates on container class appropriate container class appropriate container class at the function is generated.	ners. sses. classes. ed when	nding elements.					
a) the function declaratiob) the function definitionc) a call to the function ad) the function is execute	appears in the source of	code						
 12) Which of the following statement about template is not correct a) The compiler generates only one version of function template for each data type irrespective of the number of calls that are made for that type b) A function template can have multiple arguments c) Using templates saves memory d) We can inherit a new class from the class template 								
13) Which among the folloa) vector b) deq	que c) set	container d) stack ception						
 What happens to the a throws an exception? a) only throws exception b) Destructors are called c) same as for other variad d) None of the above. 	utomatic objects that h	nave been constructed in a try bl	ock when that block					
2. Exceptions are throwna) from the catch block toc) from the point of error	the try block	b) from a throw statement to t d) from a throw statement to						