

PG DAC Aug 19 Oops with C++ Question Bank

C++

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	Basic
A relational operator a) assigns one operand to another c) Logically combines two operands	b) Compares two operands d) assigns value to a operand

- c) the function in which it occurs3) The && and || operators
 - a) compare two numeric values

a) the loop in which it occurs

- c) compare two Boolean values
- 4) The goto statement causes control to go to

2) The Library function exit() causes an exit from

- a) an operator
- b) a label
- c) a variable
- d) a function

b) the block in which it occurs

d) The program in which it occurs

b) combine two numeric values d) combine two Boolean values

- 5) The break statement cause an exit
 - a) only from the innermost loop
 - c) 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
 - c) integers with user-defined names
- b) related data items
 - 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
- 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



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d) the function accesses the arguments original value in the calling program

```
9) Which will be the output of the following program?
            int main()
             Int arr[] = {10,11,12,13,14};
            int *p = (arr + 1);
            cout << *arr +5;
    return 0;
    a) 15
                           b) 16
                                         c) 14
                                                        d) Compile error
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
                                                         b) External storage class
    c) Static 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);
    a) Warning
                           b) compilation error c) output "124"
                                                                       d) garbage value
 2) What is the output?
 #include<iostream.h>
 void accept(int x,int y)
```

cout<<"in value method\n";



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```
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();
}
                                             c) it will not compile
a) 10
                b) garbage value
                                                                                  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.
    a) True
                                     b) False
7)
       In C++ one can define a function within another function
```

b) False

a) True



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```
8)
       In C++ an identifier can begin with a $ sign
    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<<",";
 a) 100 300
              100 b) Error
                                   c) 300 100
                                                  100
                                                                 d) 300
                                                                         100
                                                                               garbage
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();
}
                                    b) compiler error "can not initialize e2 with e1"
a) warning
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.



```
a) reinterpret cast
                              b) const cast
                                                    c) static cast
                                                                          d) None of the above
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
   c) 1 1 1 1 1
                                                d) None of the above.
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;
 a) compile time error
                              b) runtime error
                                                    c) will display correct output d) none of the above
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;
       }
                                                           d) None of these
a) 12
               b) 25
                                     c) 11
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()
    {
```



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```
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
                                                                    d) 12
  a) 15
                                             c) 24
  20) Inline functions are replaced at function call
     at the time of
                                                     c) compiletime
                                                                                    d) unpredictable
                               b) runtime
   a) preprocessing
  21) what is the output? #include<stdio.h>
    void main()
    {
        int x=4;
        printf("%d",printf("%d%d",x,x));
a) Garbage
                      b) 4,4,2
                                                                    d) compile time error
                                             c) 2,2,4
  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
   23) Consider the following code.
```

#include<iostream.h>



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```
#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;
    a) 20 20
                             b) 20 21
                                                    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;
       cout<<x<<endl;
    }
```

{

a) 6

b) 3

d)runtime error

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```
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;
    }
    a) 20 21
                             b) 21 20
                                                   c) 21 22
                                                                                d) Error
 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?.
                      b) va list
                                           c) va_show
                                                                 d) va start
a) va_arg
29) What is the output? void fun(int *ptr2)
       *ptr2=30;
void main()
       int num=10; int *ptr1=#
                                           fun(ptr1);
                                                          cout<<num<<endl;
                                                                                getch();
                      b) garbage value
                                                   c) it will not compile
    a) 10
                                                                                d) 30
30) what is the output?
void main()
    {
          int* getAr();
       int *ptr;
       ptr=getAr();
       cout<<ptr[2]<<en
    dl;
              getch();
    int* getAr()
              int arr[4]={10,20,30,40};
              return arr;
a) 20
                      b) 30
                                           c) it will not compile
                                                                                d) warning
31) What will happen to following code?
        struct emp
         char name[20];
        };
        void main()
```



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```
emp e1={"abc"};
         emp e2;
         e2.name=e1.name;
         cout<<e2.name<<e
         ndl;
         getch();
a) warning
               b) compiler error
                                     c) output "abc"
                                                           d) none of the above.
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();
                                     b) *ptr.k
                                                                                        d) ptr->*k
 a) *(*ptr).k or *ptr->k
                                                           c) ptr->k
33) What is the output?
const int a=124;
    void main()
        const int* sample();
        p=sample();
        cout<<*p;
     const int* sample()
               return (&a);
                      b) compilation error
a) warning
                                                   c) output "124"
                                                                          d) garbage value
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
                      b) True
 a) False
```

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

a) A default function parameter

b) A virtual member function



```
d) A member function definition
c) A template function
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
                                                          d) 12
41) What is the output? #include<stdio.h> void main()
       int x=4;
       printf("%d",printf("%d%d",x,x));
                                                                  d) compile time error
    a) Garbage
                              b) 4,4,2
                                                   c) 2,2,4
 42) What is the output? #include<iostream.h>
       void main()
       {
                      int &n=a;
       int a=20;
                                    n=a++;
                                                   a=n++;
       cout<<a<<"\t"<<n<<endl;
a) 20 20
                             b) 20 21
                                            c) 21 22
                                                                  d) 22 22
43) 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;
```



cout<<	x< <endl;< th=""><th>'</th><th></th><th></th><th></th></endl;<>	'			
} a) 6	b) 3	c) compile ti	me error	d) runtime error	
44) Identify fol a) const in int const *	nt * ptr;				
45) We can not	t make constant p	ointer pointing to b) False	constant int va	riable.	
46) Array of real	ference can not b	e created. b) False			
47) Using whi		initialize the list o va_list	f data in case o c) va_show	f variable number of argument functi d) va_start	ionî
48) In C++ fun a) True	ction call can be o	on left side. False			
49) We can r a) Tru	make pointer to o	constant pointing False	g to non-consta	nt int variable.	
50) cin and co a) stdio.h	ut are present in b) iostre a	m c) cor	nio.h		
51) Name man a) false	gling always happ b) true	ens in C++.			
a) arguments ib) return typec) both return	unction overloadi must be different must be different type and argume type and argume	, return type may arguments may c nts must be same	or may not be d		
53) What will he int& reference { int cnt=20, return }		owing code while	compiling ?		
a) No Error	b)	Error	c) Warning		
t="world"; }	st t="hello"; ;	lation France	a) Naith a C		
a) Runtime Err	or b) Comp i	lation Error	c) Neither Co	mpilation or Runtime Error	



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```
55) #include<iostream.h>
    int& disp()
       int num=10;
       return num;
   void main()
     disp()=30;
                             b) No Error, No Warning
a) Compilation Error
                                                                 c) Warning
       #include<iostream.h> void main()
56)
   {
       int i=5;
       int
    &j=i;
       int
    p=10;
       j=p;
          p=20;
              cout<<endl<<i<endl<<j;
     20,20
                                                                        d) 10,10
 a)
                             b) 10,5
                                                   c) 5,10
57)
       #include<iostream.h> void main()
              char *p="Hello";
          char *q=p;
              q="Good Bye";
              cout<<p<<"\t"<<q;
      Hello
                                    b) Good Bye
                                                   Good Bye
                                                                        c) Error: Lvalue Reqd.
              Good Bye
 58)
       #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
              #include<iostream>
       void main()
```

{



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```
char t[]="String functions are simple";
        int len=strlen(t);
        cout<<len;
                                                    c) successful output
a) Compilation Error
                              b) Warning
        60)
               #include<iostream>
        void main()
              int a=30;
               f();
   void f()
              int b=30;
a) Successful output
                                                                  c) Compilation Error
                                     b) Warning
     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.

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```
a) True
                          b) False
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;
}
                          c) Compilation error. Undefined variable sum and j
a) 6
        b) 5
                                                                                     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;
```



```
c) Compilation Error
a) HiBye10
                           b) HelloBye10
                                                                               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;
                   b) compilation error
                                                 c) neither warning nor compilation error
a) warning
71) 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
72) what is the output?
#include <stdio.h>
  float cal (float
  value)
return (3 * value);
void main()
int a = 10;
float b = cal ("123");
a) 369
                                                                        b) 123
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;
a) compilation error
                                 b) 25 40 60
                                                          c) 15 30 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;
}
                            b) Neither compilation nor Runtime Error c) Compilation Error
  a)Runtime Error
76) What will happen to the following code?
#include<iostream.h>
void main()
    int *ptr=new int;
    delete []ptr;
                           b) Neither compilation nor Runtime Error
                                                                              c) Compilation Error
a)Runtime Error
77) What will happen to the following?
#include<iostream.h>
void accept(int x,int y)
cout<<"in value method\n";
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;
}
                                                             c) output 30 60
a) output 30 30
                                 b) compilation error
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()
{
int num=20;
```



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```
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;
      }
   a) compilation error
                               b) runtime error
                                                     c) neither compilation error nor runtime error
   83) 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
                                                            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);
a) compile time error
                                        b) runtime error
                                                               c) neither compilation nor runtime error
```

85) What is the output?



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```
#include<iostream.h>
   const int a=124;
   void main()
    const int* sample(); int const* p;
    p=sample();
   const int* sample()
   { return (&a);
}
                                                              c) neither compilation nor runtime error
a) compile time error
                                 b) runtime 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
                                                b) runtime error
                                                                               c) compiletime error
```

89) What will happen #include <iostream.h>



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```
const int a=20;
  void main()
     int *ptr; int *const retA();
                                     ptr=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;
                      b) no
  a) Yes
93) Will the following code compile, link and execute?
```

File a.h

20



```
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;
  a) Output "f() called"
                                 b) Compiler error
                                                                         d) None of the above
                                                       c) No output
```



```
#define f main
int f()
{
return 0;
a) Yes
                           b) no
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;
}
                           second function called
a) First 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
                                          c) Garbage
a) 10
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
105) What will happen to the following code while compiling?
                                                                int& retVal()
   {
int cnt=20;
   return cnt;
a) No Error
                          b) Error
                                                c) Warning
106)#include<iostream.h>
                               void main()
   char * const t="hello";
   t="world";
                    b) Compilation Error
                                                c) Neither Compilation or Runtime 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);
a) Warning
                           b) Neithe Warning nor Error
                                                                c) Compilation Error
110) #include<iostream>
void main()
  char t[]="String functions are simple";
    int len=strlen(t);
    cout<<len;
a) Compilation Error
                                                         c) successful output
                                  b) Warning
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;
                           b) it will print garbage value
a) compilation error
                                                                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++)
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;
a) HiBye10
                   b) HelloBye10
                                         c) Compilation Error
                                                                       d) HiBye5
                                                                                             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;
                                                        c) Compilation Error
  a) Successful output
                                  b) Warning
123) what is the output?
  #include <stdio.h>
float cal (float value)
return (3 * value);
void main()
int a = 10;
float b = cal ("123");
a) 369
                           c) Compilation error - Cannot convert from char to float
b) 123
                           d) None of the above
```



```
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>
a) 75
            b) Error - Undefined symbol max_func
                                                           c) 33
                                                                        d) None of the above
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;
                                 b) 25 40 60
                                                          c) 15 30 60
a) compilation error
                                                                                     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
a) Runtime Error
                                                                               c) Compilation 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()
```



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```
cout<<30<<endl; int
  &ref=30; ref=60;
cout<<ref<<endl;
                                b) compilation error
a) output 30 30
                                                            c) output 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 #
a) output 200
                                 b) compilation error
                                                                    c) Runtime Error
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
  int;
           delete
           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;
  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) 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
                                                        c) neither compilation nor runtime error
                                  b) 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
                                                               c) None of these
                                  b) Memory Leak
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
                                                b) runtime error
                                                                             c) compiletime 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;
                                                                                   c) compiletime error
a) neither compile ,nor runtime error
                                                    b) runtime error
140) What is the referent in the following code?
   int main ()
int i = 0;
int &ri = i;
return 0;
a) ri
              b) i
                            c) Both ri and i
                                                      d)none
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;</pre>
  else {
cout << "Address of pi and pj are different" < < endl;</pre>
```



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```
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;
}
a) 100
                    b) 200
                                           c) 300
                                                          d)Compiler error
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;
                    b) cout<<::i;
                                           c) cout<<&i;
                                                                  d) You can't print global variable in main
a) cout<<i;
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;
}
a) 200
                      b)100
                                          c) 300
                                                                  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;
}
                                                         d) Compiler error
a) 300
                      b) 100
                                          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, -10\}
  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)
```



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```
{
   k = 40;
 int main()
 { int j = 0; cout <<
   j << endl;
 f(j);
 cout << j << endl;
 f1(j);
 cout <<j << endl; return
 }
                                                   c) 0 0 40
                                                                           d) Compiler error
 a) 0 40
             40
                            b) 0 0 0
 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;
 }
 a) compilation error
                            b) 0 0
                                                    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;
 }
                                                           c) output 40 d) compilation error
                                    b) output 50
     a) output 100
```

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;
a) Yes
                     b) No
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;
08
  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?
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;
}
                                            c) both I and j
a) I
                    b) 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)
                            b) 3 bytes
                                                                                 d) 8 bytes
a) 2 bytes
                                                    c) 4 bytes
162) What is the output from the following program?
#include <iostream>
using namespace std;
void f ()
```



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```
Int i = 10; cout << i <
  < endl;
i++;
int main ()
{ f();
  f();
return 0;
a) 10
         11
                            b)10
                                     10
                                                   c)Compiletime error
                                                                                   d)None of the above
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;
a) yes
                     b) no
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
  0;
}
S
#endif
a) compiler error
                                    b) linking error
                                                                   c) successful output
```

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
}
#else int
  main()
cout << "Second main called" << endl; return
}
#endif
                           b)First main called
a)compiler error
c)Second main called
                           d)None of the following
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
                                                                          d)None of the above
 a) 10
          11
                    b)10
                             10
 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;
 }
                             b) no
   a) yes
 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
                            0
```



```
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;
                                        c)Compiler error
 a) 100
                      b) Garbage
 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;
 }
                            b) no
   a) yes
 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
                                    c) compilation error
                                                                         d) none of the above
             b) 1
 179) Will the following program compile and link?
 int main()
 {
 void v; return
   0;
 }
   a) yes
                             b) no
 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)
```



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```
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</pre>
   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;
                                            b) false
  a) True
```

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;
                                                            b) Initializing I with 40
 a) Assigning 40 to i
                                                            d) None of the above
 c) Calling i function by passing 40
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;
  }}
```



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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 successfully. 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; b) 5 d) 1 1 a) **3** c) 2 197) What will be the output of this program? #include <stdio.h> int main(void) { int i = OX7; i=i^i; printf("%d\n", i); return } 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)++;



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```
printf("%d, %d", (*pc), c); return
   0;
}
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
                                          d) a contains 3 and b contains 3
c) a contains 4 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
        c) It will compile, link but fail at runtime.
                                                         d) It will compile, link and run successfully.
```

206) What kind of error we will get in the following code? Compilation Error or LinkingError? int main ()



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```
{ 0; 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 successfully.
   207) Will the following code compile and link? int main ()
  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 successfully.
  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 successfully.
  209) What kind of error we will get in the following code? Compilation Error or Linking Error?
  int main ()
  {
  i = 0; 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 successfully.
  210) Inline functions are replaced at
                               b) Compile time
     a) Run time
                                                             c) Debug time
                                                                                            d) None of above
  211) Which type of variables can be referred from anywhere in the c++ code?
  a) All variables
                                                    b) Universal variables
  c) Local variables
                                                      d) 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 to this value will be known as
  a) Empty pointer
                              b) Null pointer
                                                             c) Void pointer
                                                                                    d) None of above
  215) Which arithmetic operation can be done in pointer?
  a) Multiplication
                              b) Division
                                                                             c) None of above
  216) Which operator is used for comparing two variables
```

a) :=

b) =

c) =:

d) ==



```
217) Can #define accept parameters
                          b) No
a) Yes
218) What is the size of int datatype for 32 bit system?
a) 1 byte
                   b) 2 byte
                                         c) 4 byte
                                                                d) 8 byte
219) How we define our name for constants?
a) #constant
                          b) #define
                                                c) #define_constant d) #constant_define
220) \r is used for
a) carriage return
                          b) new line
                                                c) end of the line
                                                                             d) vertical tab
221) C++ programs must contain
                   b) main()
                                                               d) program()
a) start()
                                        c) system()
222) Reference is like a
a) Pointer
                                         c)Array
                                                               d)None of above
                   b)Structure
223) Which is not C++ storage class?
                                                c) static
a) auto
                   b) register
                                                                             d) iostream
224) What will happen? #include<iostream.h>
void main()
int *ptr=new int;
    *ptr=30;
    cout<<endl<<*ptr<<endl;
a) compilation error
                          b) runtime error
                                                       c) warning
                                                                             d) output: 30
225) What will happen?
  #include<iostream.h>
void main()
for(int x=0;x<4;x++)
//some statements
for(int x=0;x<9;x++)
//some statements
}
                   b) compilation error
                                                c) neither warning nor compilation error
  a) warning
226) What will happen?
  #include<iostream.h>
void main()
for(int x=0;x<4;x++)
```



```
int j=4;
for(x=0;x<9;x++)
j++;
  a) warning
                  b) neither warning nor compilation error
                                                                     c) compilation error
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();
                                   b) No
  a) Yes
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;
                    b) warning
                                                 c) output 40
                                                                             d) output 41
   a) error
235) What will happen? #include<iostream.h>
void main()
const int num2=50;
int &ref=num2;
                          b) it will work
   a) warning
                                                        c) error
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;
                           b) Yes
   a) No
238) Will following code work?
     #include<iostream.h>
void main()
const int &k=400;
                    b) No
a) Yes
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
```



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- 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
 - c) A and B both

- b) Object is assigned to another object
- 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;
}
a) output 0
```

- b) compilation error "static member must be initialized"
- c) Linking error
- d) output garbage value
- 3) Use the following code to answer the

```
question Class Z {
  public:
   void def(char
a);
             int
ghi();
          private:
   char j;
     int
```

Which of the following is legal in a program that uses this class, after the following declaration:

Zx;

- a) x.ghi();
- b) x.j = 'd';
- c) Z.ghi();
- d) None of the above is legal

- 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



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- 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
  );
x1=x3;
```

- 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

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); //Possible function calls

Cout<<day_of_week();

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?



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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? c) no, only private functions are possible d) none of the above. a) yes 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();
}
a) say I am in somefunc the value is 10
                                                  b) say I am in somefunc Null pointer
                                                  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
  b
  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;
void main()
{
  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
                             b) 40
                                                  c) none of the above
  a) 10
  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
  {
  public:
  name(name &ref)
       cout<<endl<<"in copy con\n";
  }
  };
```



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```
void main()
name n1;
name n2(n1);
a) output "in copy con"
                                 b) compile error
                                                              c) linking error
                                                                                      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
  p
  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	n error because of inc	correct syntax of	'new'		
19) What is th output ? #include <ic h=""> class my</ic>	stream.				
public:					
static int cour	nter;				
}; void main() {					
ι cout< <myclas< td=""><td>s::counter;</td><td></td><td></td><td></td><td></td></myclas<>	s::counter;				
} a) output 0	b) compilation	error c) L	inking error	d) output g	arbage value
20) The copy o	constructor would tak b) False	ke a parameter by	reference only		
21) The defau a) Private c) Protected	t access scope for a r b) Public d) Defau		lass is		
22) Where do a) Code/text c) Heap	es memory get alloca b) Stack d) Data	ted for a static da	ta members of a	class	
b) Provide a l e c) Provide a p	ces ogical grouping of obj ogical grouping of cla hysical grouping of o hysical grouping of cl	isses bjects			
24) class Foo { int i;					
}; In the above s a) default	ample, what is the m b) virtual	ember access spe c) protecte		nber data "i"? ivate	e) public
a) in the object of	nction can always ac f which it is a membe f the class of which i	er	•	class of which public part of i	
26) which amon function	g the following type o	of pointer is used	to represent an	object that invo	okes a member
a) void point	er b) null p	ointer c) t	his pointer	d) base poin	ter
27) Which an belongs	nong the following op	perator is used to	identify the class	s to which a me	mber function
a) Í	b) []	c) <u>::</u>	d) .*		



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28) Which of the	following is the defaul	t namespace of C-	++?	
a) iostream	b) standard	c) std	d) stdio	
29) What operator destructor?	r is prepended onto th	e member functio	n name to indicate	e that the function is a
a) &	b) *	c) ~	d) ::	e) –
a) Both explicitly ofb) Neither constructc) In a given class,d) Constructors cane) It is illegal to de	the following stateme declared constructors a actors nor destructors of constructors are alwa an take parameters, but fine either a construct	and explicitly declar can take paramete ys required, but d ut destructors can cor or a destructor	ared destructors an ers. estructors are not. Inot.	re required in a class.
a) true	b) False	Tunction		
 a) Destructor is ca b) By default destriction c) Destructor can d) In case of inher e) Destructors car 33) Copy construction 	tor is called in case	s out of scope by compiler ructor is called bef	ore derived class	
b) When object is	t is initialized using and passed to a function a returned from a functi e	nd collected in an	-	
34) What is the output? #include <iostre h=""> class myclass</iostre>				
າ public:				
void myclass() {				
=	"in myclass def\n";			
myclass(int k)				
{ cout< <endl<<< td=""><td>"in param const\n";</td><td></td><td></td><td></td></endl<<<>	"in param const\n";			
} };				
void main()				
myclass m1, m2(3	30);			

b) output "in myclass def in param const"

d) runtime error

a) output " in param const "

c) compilation error



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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. a) true b) false 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"; myclass(int k) cout<<endl<<"in param const\n"; } **}**; void main() myclass m2(30); a) output " in param const " 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 access for members of a class is ______.



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41) Member functions of a class are normally made	and data members of a class are
42) The three member access specifiers are,	and
43) is called when we initialized one object u	using other object.
44) The size of a class with no data members and member fun	ctions is byte.
45) keyword if used , constructor will not be ava	ilable for conversion.
46) Destructor can be overloaded. a.true b.false	
47) if the main function is coded as	
l mho a; a=a-a;	
Then output will be a) There was There was	b) Nothing
c) There was a certain man There was a certain man.	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 be a) There was There was c) There was a certain man There was a certain man	b) There was There was a certain man d) compile time error
 49) which of the following statement is correct? a) A constructor is called at the time of declaration of an object. b) A constructor is called at the time of use of an object. c) A constructor is called at the time of declaration of a class. d) A constructor is called at the time of use of a class. 	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 cc) friend function can access private data members of the class d) All of the above	lass
51) A copy constructor is invoked when	

a) a function returns by value

b) an object is passed by value to a function



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- 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
```

a) There was There was

besss

mho a , b; then output will

b)Nothing



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```
c) a runtime error
                                  d) There was a certain man There was a certain man.
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;



1
void main()
<pre>{ myclass c1,c2; c1.set_ab(10,20); c2.set_ab(40,40); cout<<endl<<sum(c1); cout<<endl<<sum(c2);="" pre="" }<=""></endl<<sum(c1);></pre>
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) [] d) ->
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 ar 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) Trueb) False.
15) When you overload assignment operator using friend function 2 arguments are required.a) trueb) 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 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) *



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- 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";
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
2) What will be the output?
   #include<iostream.h>
class base
public:
    base()
```



```
cout<<"\nIn base const\n";
    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";
};
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?
```

- a) Public members of B become public members of D
- b) Private members of D become public members of B
- c) Protected members of B become public members of D
- d) Private members of B become public members of D
- 5) If parent class has a method which is non-virtual, and child class defines the same method. It is called as



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a) overloading	b) overriding	c) redefinition	
6) Casting a base (a) Upcasting	class pointer to derived clas b) Downcasting	ss pointer is called as c) abstraction	d) None of the above.
	rom being present in an ob		s, u can prevent multiple copies of objects by declaring base class
a) public	b) protected	c) virtual	d) private
8) #include <iostre< td=""><td>am.h> class Base</td><td></td><td></td></iostre<>	am.h> class Base		
public: int a; protecte d: int b; private: int c;			
}; class Derived:Base { int d; friend class Fr			
<pre>}; class Friend { Derived deriv };</pre>	ed; , which of the following var		
a) only a and b	b) a, b and d	c) only a	d) error
9) #include <iostre ;="" a="" a;="" a<="" b:public="" c:virtual="" class="" cout<<"from="" fun()="" int="" public:="" td="" void="" {="" }="" };=""><td></td><td></td><td></td></iostre>			
{			

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
                                                                                     d) No output
                                                               c) run time error
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";
};
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:
  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
c) output "in base def
                          sub def sub disp "
                                                      d) output "base def base disp
                                                                                       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.
                           b) False
a) True
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";
};
class sub:public base
public:
  sub()
    {
           cout<<"sub def\n";
    void disp()
           cout<<endl<<"in sub disp\n";
```



```
};
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";</pre>
};
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 "
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?
                                                                    d) None
  a) 1
                      b) 2
                                             c) 3
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:
              void ~A();
     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.
       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?
                                                                                   e) i, f, and c
     a) c only
                      b) f and c only
                                             c) i and c only d) i and f only
```



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```
24) class
IntArra
yRc:
public
IntArra
y;
```

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);
a) 420 100 200 300
                           b) 420 200 100 300
                                                        c) 0 200 100 300
                                                                               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<<"pre>professor";
};
class researcher
public:
    researcher()
```



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```
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
                  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
  iii. non-virtual base class constructor, in the order of their
  inheritance iv. virtual base class constructor, in the order of their
  inheritance.
32) _____ enables reusability which saves time in development, and encourages using
```

previouslyproven and high quality software.



33) A class which has p	oure virtual function is ca	illed as	
34) When address of c	child class object is assign	ned to parent class pointer o	r reference, object slicing
a) True	b) False		
35) Protected membe a) True	rs can be inherited but no b) False	ot accessible in derived class	5.
	ce mode protected and page respectively.	oublic members of parent cla	ass becomes and
37) Which of the followa) Protected	wing access specifier is use b) Public	sed as default in a class defined as defined as d) Fi	nition? riend
38) How "Late binding" a) Using C++ tables c) Using Indexed virtua	' is implemented in C++? I tables	b) Using Virtual tables d) Using polymorphic tabl	es
a) Declaring it abstractb) Declaring it abstractc) Making at least one	-	ual function.	
a) If no constructors a constructors of base	e class.	d class, objects of the derive	ed class will use the nctions or objects of derived
c) An object of derived	· ·	ate or protected members o of the base class become pu	f base class blic for the functions outside
	wing cannot be used with		
a) class b)	member functions	c) constructor	d) destructor
42) Which of the follow a) Virtual function	ving concepts is used to i b) Operator function		d) Static function
43) Which inheritance Class A :public X, p	type is used in the class goublic Y	given below?	
a) Multilevel inheritand	ce b) Multiple i	nheritance	
c) Hybrid inheritance	d) Hierarchic	al inheritance	
44) Assume a class Der main() can access	v that is privately derived	d from class Base. An object	of class Derv located in
a) public member of D	erv b) pro	tected members of derv	
c) nublic member of Ba	d) nro	itected members of Rase	



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- 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";
    }
a) sub1 disp sub2 disp
                              b) compilation error
                                                        c) sub2 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
c) address of virtual table
                                           d) None of the above
```



```
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
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;
}
a) 0
                    b) 1 size of empty class is always 1
                                                                                               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
  e
    {
            cout<<"failed\n";
}
                                             sub2 disp
                              b) sub1 disp
a) Error
                              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
  е
    {
            cout<<"failed\n";
    s4=dynamic_cast<sub2*>(b);
    if(s4)
    {
            s4->disp();
  }
    els
  е
            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"
                                                                                         d) runtime error
  a) compilation error
                                                                  c) linking 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();
                    b-
  >print();
                                             b)output "in sub disp in print"
a) output "in base disp in print"
c) compilation error
                                            d) output "in sub disp in base disp in print"
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?
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";</pre>
       }
  };
  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
                             b) Typeid
                                                                          d) Typeinf
  a) Typeof
                                                    c) Type
  15) All method invocations in C++ by default exhibit late binding
               b) False
a)True
 16) To get polymorphism for a class you have to mark your methods as
                       b) Virtual
  a) Static
                                            c) Pure virtual
                                                                   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
   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
                     b) False
a) True
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 sub disp\n";
}
};
void main()
```



base *b=new sub;			
a) linker errorc) output "in base def in sub def in sub	o disp"	b) compilation erro d) runtime error	r
14) In case of dynamic polymorphism, a using either			ase pointer can be checked
15) Virtual pointer (vptr) points to virtual a)true b)false	al function.		
16) There is only one virtual table gets c a) true b) false	reated for a clas	ss no matter how ma	ny instances are created.
17) Abstract class can not have non-virto a)true b) false	ual functions.		
	File Hand	lling	
	ode is based on ow End Of File i Il of the above		
, ,	resents standar used to read in	d input put from user's term	ninal
3) 'ios' stream is derived from iostream a) true b) false			
4) The objects that correspond to the sta a) cin b) cout	andard devices of clog	on the system include d) All of the a	
5) Which of the following is the base class a) istream b) iostream	ss of C++ steam c) stream	class hierarchy? d) ios	e) ostream
6) Serialization is the process ofa) Converting bytes to objectsc) Converting bytes to classes	b) Converting of	objects to bytes lasses to bytes	
7) Which is the proper prototype for ove a) istream operator>>(istream, CPoint); c) istream& operator>>(istream&, CPoint)	b) istrea	>" operator for a clas am operator>>(istrea am& operator>>(istr	am&, CPoint);
8) extraction operator is used with cout. a) True b) False			
9) The class which allows us to read as w	vell as write in a	file is	



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Templates

-	Templates can be header file	distributed to the b) lib file	client through c) both A and E	d) templates can	not be distributed at all
·		·	·		
2)	which of the follo	owing is not a valid	initialization of a	template class, assuming	g the class is declared as
	template <class< td=""><td>T></td><td></td><td></td><td></td></class<>	T>			
	class Pair { }				
•	Pair <int></int>				
•	Pair <char></char>	ning abc is a user de	ofined class)		
-		re valid initializatio	· · · · · · · · · · · · · · · · · · ·	class	
21	The CTI week as also				
	The STL makes ab inheritance	undant use of	b) virtual funct	ions	
	friend functions		d) None of the		
٠,			4,110110		
	Template classes				
a)	True	b) False			
5)	#include <iostrean< td=""><td>n.h> template<clas< td=""><td>ss T,class X></td><td></td><td></td></clas<></td></iostrean<>	n.h> template <clas< td=""><td>ss T,class X></td><td></td><td></td></clas<>	ss T,class X>		
	ass obj				
{	T t. V				
	T my_t; X my_x; public:				
	{				
	obj(T t,X x):my_t(t),my_x(x)			
	}				
Da	};	nla cada abaya yab	ich and of the fal	loving is a valid convers	ion onorator for the
KE	type T ?	pie code above wn	ich one of the for	lowing is a valid convers	ion operator for the
a)	T operator T(){ ret	urn my t;}	b) T ope	erator (T) const{return m	ny t;}
	operator(T) {retur			ator T() const{ return m	- —
-					
6)	Given following cl #include <iostream< td=""><td></td><td></td><td></td><td></td></iostream<>				
	{	11.112			
	template <class ta<="" td=""><td>1,class t2> class my</td><td>class</td><td></td><td></td></class>	1,class t2> class my	class		
} ;	·				
		hich will direct a co	•		
-	_	s for double and cl			
IJ	Create object of t	his class "m1" on	Stack.		
7)	Which one suppo	rt unknown data ty	pes in a single fra	mework ?	
a)	inheritance	b)virtual fun	ctions	c) abstract base class d)	templates.
-	Which one suppo inheritance	rt unknown data ty b) virtual fur		mework ? c) abstract base class	d) templates
чj		wir tuur rui		o, and a dec nade class	a, templates



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- 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.
- d) Are given an element's key value and you want to quickly access the corresponding elements.
- 10) An STL algorithm is
- a) A standalone function that operates on containers.
- b) A Link between member functions and containers.
- c) a friend function of appropriate container classes.
- d) a member function of appropriate container classes.
- 11) Actual code for template function is generated when
- a) the function declaration appear in the source code
- b) the function definition appears in the source code
- c) a call to the function appears in the source code
- d) the function is executed at runtime
- 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 following is an associative container
- a) vector
- b) deque
- c) set
- d) stack

Exception

- 1. What happens to the automatic objects that have been constructed in a try block when that block throws an exception?
- a) only throws exception
- b) Destructors are called for each of the objects
- c) same as for other variables.
- d) None of the above.
- 2. Exceptions are thrown
- a) from the catch block to the try block
- b) from a throw statement to the try block
- c) from the point of error to a catch block
- d) from a throw statement to a catch block