



C++

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Basic

- 1) A relational operator a) assigns one operand to another b) Compares two operands c) Logically combines two operands d) assigns value to a operand 2) The Library function exit() causes an exit from a) the loop in which it occurs b) the block in which it occurs c) the function in which it occurs d) The program in which it occurs 3) The && and || operators a) compare two numeric values b) combine two numeric values c) compare two Boolean values d) combine two Boolean values 4) The goto statement causes control to go to a) an operator b) a label c) a variable d) a function
- 5) The break statement cause an exit
- a) only from the innermost loop
- c) from all loops and switches
- 6) A structure brings together a group of
- a) items of same data type
- c) integers with user-defined names

b) related data items

b) only from the innermost switch

d) from the innermost loop or switch

d) constant values

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

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- a) a variable is created in the function to hold the arguments value
- b) the function cannot access the arguments value
- c) a temporary variable is created in the calling program to hold the arguments value
- d) the function accesses the arguments original value in the calling program
- 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";
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
                                                                         d) output "in value method"
c) output "in value method in reference method"
3) What is the output?
void fun(int ptr2)
      ptr2=30;
void main()
{
      int num=10;
     fun(num);
      cout<<num<<endl;
     getch();
}
a) 10
                  b) garbage value
                                           c) it will not compile
                                                                         d) 30
4) What is the output?
void main()
      int* getAr();
      int *ptr;
      ptr=getAr();
     cout<<ptr[2]<<endl;
      getch();
}
int* getAr()
{
      int arr[4]={10,20,30,40};
      return arr;
}
     a) 20
                            b) 30
                                                  c) it will not compile
                                                                                        d) warning
5) In case of command line arguments main accepts following two arguments.
a) int argc, char *argv
                                                          b) char argv,int argc
c) int argc,char *argv[]
                                                          d) char *argv,int *argc
```



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```
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
       a) True
 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
                                            c) 300 100
                  100
                             b) Error
                                                           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<<endl;
       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;



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```
mystruct *ptr=new mystruct;
     ptr->k=#
     // here
     getch();
    }
                                   b) *ptr.k
                                                                              d) ptr->*k
a) *(*ptr).k or *ptr->k
                                                        c) ptr->k
12) The operator allows conversion between nonstandard types.
                                                                              d) None of the above
a) reinterpret_cast
                                   b) const_cast
                                                        c) static_cast
13) *p++;
                                   b) increments address
                                                                       c) Error
                                                                                      d) None
   a) increments value
14) The statements
int a=5;
     cout<<"First"<<(a<<2)<<"Second";
Output will be
                                                         c) Second25First
a) First52Second
                           b) First20Second
                                                                              d) An error message.
15) The following program segment
int a = 10;
int const &b=a;
a=11
printf("%d%d",a,b);
                                                         b) Results in run time error
   a) Results in compile time error
                                                         d) None of the above.
   c) 11 11
16) What will be the output?
#include<iostream.h>
void main()
{
     int a, *pa, &ra;
     pa=&a;
     ra=a;
     cout<<"a="<<a<<"pa="<<pa<<"ra"<<ra;
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;
   }
a) 12
                                                                   d) None of these
                     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()
      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()"?
   a) 15
                             b) 30
                                                    c) 24
                                                                           d) 12
20) Inline functions are replaced at function call at the time of
     a) preprocessing
                                 b) runtime
                                                           c) compiletime
                                                                                          d) unpredictable
21) what is the output?
#include<stdio.h>
void main()
{
      int x=4;
      printf("%d",printf("%d%d",x,x));
}
                             b) 4,4,2
       a) Garbage
                                                   c) 2,2,4
                                                                   d) compile time error
22) consider following code
    #include<iostream.h>
    void main()
      int i,j;
      for(i=0;i<2;i++)
             for(j=0;j<3;j++)
                     if(i==j)
                             continue;
```



```
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                    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>
#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";
     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
                                          d) none of the above.
c) 144
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
                                   c) compile time error
                                                                        d)runtime error
                    b) 3
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
                                                  c) 21 22
                                                                        d) Error
                            b) 21 20
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?.
a) va_arg
                    b) va_list
                                          c) va_show
                                                                d) va_start
29) What is the output?
void fun(int *ptr2)
{
      *ptr2=30;
}
void main()
     int num=10;
     int *ptr1=#
     fun(ptr1);
     cout<<num<<endl;
     getch();
}
a) 10
             b) garbage value
                                          c) it will not compile
                                                                               d) 30
30) what is the output?
void main()
{
```



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```
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
   31) What will happen to following code?
       struct emp
         char name[20];
       };
       void main()
        emp e1={"abc"};
        emp e2;
        e2.name=e1.name;
        cout<<e2.name<<endl;
         getch();
                                             c) output "abc"
        a) warning
                       b) compiler error
                                                                    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();
a) *(*ptr).k or *ptr->k
                               b) *ptr.k
                                                                                  d) ptr->*k
                                                     c) ptr->k
   33) What is the output?
   const int a=124;
   void main()
         const int* sample();
        int *p;
         p=sample();
        cout<<*p;
```

{

};

{

}





```
}
   const int* sample()
         return (&a);
}
                        b) compilation error
                                                      c) output "124"
                                                                            d) garbage value
   a) warning
   34) For the following allocation which would be the proper deallocation?
         int *p = new int[5]
                                                                            d) None of the above
       a) Free(p)
                               b) Delete p
                                                     c) Delete [] p
   35) References are allocated memory
   a) False
                                       b) True
   36) If ptr is a pointer to array of objects, then delete ptr and delete [] ptr both are same
   a) False
                                       b) True
   37) Which one of the following is demonstrated by the sample code above?
   a) A default function parameter
                                                             b) A virtual member function
   c) A template function
                                                             d) A member function definition
   38) The statements
   int a=5;
         cout<<"First"<<(a<<2)<<"Second";
   Output will be
   a) First52Second
                                                             b) Second25First
   c) First20Second
                                                             d) An error message.
   39) The following program segment
   int a = 10;
   int const &b=a;
   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()"?
   a) 15
                        b) 30
                                              c) 24
                                                                    d) 12
   41) 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
                                                  c) 2,2,4
                                                                         d) compile time error
42) What is the output?
#include<iostream.h>
void main()
{
      int a=20;
      int &n=a;
      n=a++;
     a=n++;
     cout<<a<<"\t"<<n<<endl;
}
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;
}
a) 6
             b) 3
                                    c) compile time error
                                                                         d) runtime error
44) Identify following
    a) const int * ptr;
    b) int const * str;
45) We can not make constant pointer pointing to constant int variable.
                                           b) False
    a) True
46) Array of reference can not be created.
                                           b) False
    a) True
47) Using which macro, we can initialize the list of data in case of variable number of argument function?
                            b) va_list
                                                   c) va_show
                                                                                 d) va_start
    a) va_arg
48) In C++ function call can be on left side.
    a) True
                                    b) False
49) We can make pointer to constant pointing to non-constant int variable.
    a) True
                                    b) False
50) cin and cout are present in
a) stdio.h
                            b) iostream.h
                                                          c) conio.h
51) Name mangling is done in case of
a) function overriding
                                    b) function overloading
                                                                         c) operator overloading
```





```
52) 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
 53) What will happen to the following code while compiling?
 int& retVal()
 int cnt=20;
 return cnt;
 a) No Error
                             b) Error
                                                          c) Warning
 54) #include<iostream.h>
 void main()
 char * const t="hello";
        t="world";
                       b) Compilation Error
                                                   c) Neither Compilation or Runtime Error
a) Runtime Error
 55) #include<iostream.h>
 int& disp()
 {
       int num=10;
       return num;
 void main()
   disp()=30;
 a) Compilation Error
                                    b) No Error, No Warning
                                                                         c) Warning
 56) #include<iostream.h>
 void main()
 {
       int i=5;
       int &j=i;
       int p=10;
       j=p;
        p=20;
       cout<<endl<<i<endl<<j;
 }
    a) 20,20
                      b) 10,5
                                            c) 5,10
                                                                  d) 10,10
 57) #include<iostream.h>
 void main()
 {
       char *p="Hello";
```



```
char *q=p;
         q="Good Bye";
         cout<<p<<"\t"<<q;
   }
   a) Hello
             Good Bye
                                      b) Good Bye Good Bye
                                                                           c) Error: Lvalue Reqd.
   58) #include<iostream.h>
          const int a=124;
          void main()
                const int* sample();
                int *p;
                p=sample();
           const int* sample()
                return (&a);
                                                                           c) Compilation Error
                               b) Neithe Warning nor Error
a) Warning
   59) #include<iostream.h>
   void main()
         char t[]="String functions are simple";
         int len=strlen(t);
         cout<<len;
                                       b) Warning
a) Compilation Error
                                                                    c) successful output
   60) #include<iostream.h>
      void main()
         int a=30;
         f();
      }
   void f()
         int b=30;
a) Successful output
                                      b) Warning
                                                                    c) Compilation Error
   61) What will happen to the following code?
       #include<iostream.h>
         void main()
         for(int i=0;i<5;i++)
         {
                int a=0;
       a++;
       cout<<endl<<a;
       }
```

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```
b) it will print garbage value
                                                                c) it will print 1
                                                                                      d) it will print 5
a) compilation error
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.
a) True
                                          b) False
65) Function overloading and operator overloading comes under
                                                         b) Compile time polymorphism
a) Run time polymorphism
c) Both a and b are correct
                                                         d) None of the above
66) What will be the output of the following code?
    #include<iostream.h>
    #define MAXROW 3
    #define MAXCOL 4
    void main()
    {
    int (*p) [MAXCOL];
    p=new int[MAXROW][MAXCOL];
    cout<<endl<<sizeof(p)<<endl<<sizeof(*p);</pre>
a) 2(under Dos) or 4(under Linux or windows) 8(under Dos) or 16(under Linux or windows)
b) 4(under Dos) or 8(under Linux or windows) 8(under Dos) or 16(under Linux or windows)
c) compilation error
d) runtime error
67) What is the output of the program?
#include <iostream.h>
void main ()
```

for(int j = 1, sum = 0; j < 5; j++)

sum += j;





```
sum = j;
cout << sum;
}
a) 6
             b) 5
                            c) Compilation error. Undefined variable sum and j
                                                                                        d) 10
68) Which of the following is false about struct and class in C++?
     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;
    }
 a) warning
                            b) compilation error
                                                          c) neither warning nor compilation error
71) What will happen to the following code?
  #include<iostream.h>
  void main()
  {
     int a=30;
     f();
  void f()
     int b=30;
  }
```

c) Compilation Error



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b) Warning

Successful output

```
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
                                                                          d) None of the above
c) Compilation error - Cannot convert from char to float
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);
    }
    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;
    }
```

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```
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);
                                          c) output "in referece method"
a) output "in value method"
                                          d) output "in value method in reference method"
b) compilation error
78) What will happen to the following?
    #include<iostream.h>
    void main()
     cout<<30<<endl;
     int &ref=30;
     ref=60;
     cout<<ref<<endl;
    a) output 30 30
                                          b) compilation error
                                                                              c) output 30 60
    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;
                                                   c) output 600
a) compilation error
b)output 300
                                                   d) output, garbage value
 81) 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;
                               b) 20 21
     a) 1 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;
                                     b) runtime error
                                                          c) neither compilation error nor runtime error
       a) compilation error
  83) What will happen to the following code?
       #include<iostream.h>
       int var=200;
       void main()
       {
       int& fun();
       cout<<var<<endl;
       fun()=100;
       cout<<var<<endl;
       }
```



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```
int& fun()
        static int var=30;
        return var;
        a) neither compilation error nor warning,
                                                        output 200
                                                                      100
        b) warning
        c) compilation error
        d) neither compilation error nor warning,
                                                        output 200
                                                                       200
    84) what is the output?
       #include<iostream.h>
       const int a=124;
       void main()
        const int* sample();
        int * const p=sample();
       const int* sample()
       { return (&a);
                                                             c) neither compilation nor runtime error
  a) compile time error
                                      b) runtime error
  85) What is the output?
        #include<iostream.h>
       const int a=124;
       void main()
        const int* sample();
        int const* p;
        p=sample();
       const int* sample()
       { return (&a);
a) compile time error
                                      b) runtime error
                                                                   c) neither compilation nor 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;
                                                   b) runtime error
                                                                                 c) compiletime error
a)neither compile, nor runtime error
89) What will happen
#include <iostream.h>
const int a=20;
void main()
{
      int *ptr;
     int *const retA();
      ptr=retA();
      cout<<*ptr;
}
int *const retA()
      return &a;
    a) neither compile, nor runtime error
                                                                                c) compiletime error
                                                  b) runtime error
90) Will the following code work?
    #include <iostream>
    using namespace std;
    int main ()
       int f()
       {
```



```
return 10;
      }
      cout << f() << endl;
      return 0;
    }
    a) Yes
                                  b) no
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;
    }
a)
     yes
                            b) no
92) Will the following code compile and link? Give reasons.
int main()
{
  int i = 0;
  int &ri = 0;
 return 0;
}
a)
     Yes
                           b) no
93) Will the following code compile, link and execute?
    _____
    File a.h
    int i;
    _______
    File a.cpp '
   int main ()
    #include "a.h"
   i = 0;
    return 0;
     Yes
                           b) no
a)
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;
         There is no main function inside "b.cpp"
   a)
         Function "f()" is declared but not defined inside "a.cpp"
   b)
         Function "f()" is declared with "extern" inside "b.cpp"
   c)
         None of the above
   d)
   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;
       }
         Output "f() called"
                                      b) Compiler error
                                                             c) No output
                                                                               d) None of the above
   a)
   96) Will the following code compile and link?
       #define f main
       int f()
       return 0;
                         b) no
a) Yes
   97) What will be the output of the following code?
       #include <iostream>
       using namespace std;
       void f()
       cout < < "First f function called" < < endl;</pre>
       void f()
       cout << "Second ffunction called" << endl;</pre>
```



```
Int main ()
      F();
      F();
      Return 0;
    }
      First function called second function called
a)
      First function called
b)
      Second function called
c)
      Compiler error
d)
98) Is there anything wrong in the following code? If so, what?
    int main ()
    {
    int x;
    x = x;
    return 0;
a) Yes
                             b) No
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;
                     b) no
a) Yes
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;
```



```
}
a) 10
             b) 100
                                   c) Garbage
                                                        d) None of these
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;
                                                                d) None of these
a) Compilation error b) Output 20
                                          c) Output 200
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);
                                   b) output 0 10 20
                                                                c) output 10 10 20
    a) output 10 20 0
                                                                                             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;
}
                                                                c) Error: Lvalue Reqd.
a) Hello
                            b) Good Bye
                                          Good Bye
          Good Bye
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
                                   b) Warning
                                                         c) successful output
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;
                                                            c) it will print 1 d) it will print 5
   a) compilation errorb) it will print garbage value
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) True or False. 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);</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
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;
       }
                                     c) Compilation error. Undefined variable sum and j
       a) 6
                      b) 5
                                                                                                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;
                      b) HelloBye10
        a) HiBye10
                                            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;
       }
```



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```
const int* retA()
                return &a;
a) warning
                       b) compilation error
                                                     c) neither warning nor compilation error
 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
                                                                                       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);
                                                                                 d) None of the above
        a) 75
                    b) Error - Undefined symbol max func
                                                                    c) 33
  125) What is the output of the following?
       #include <iostream.h>
       int add(int, int = 5, int = 10);
       void main()
```

{



```
cout << add(10) << " " << add(10, 20) << " " << add(10, 20, 30);
       int add(int a, int b, int c)
       return a + b + c;
                                                                                           d) 20 40 60
       a) compilation error
                                        b) 25 40 60
                                                                 c) 15 30 60
   126) What will happen to the following code?
         #include<iostream.h>
         void main()
         {
         int *ptr=new int;
         delete ptr;
         delete ptr;
                        b) Neither compilation nor Runtime Error
                                                                      c) Compilation Error
   a) Runtime Error
   127) What will happen to the following code?
   #include<iostream.h>
   void main()
   {
         int *ptr=new int;
         delete []ptr;
a) Runtime Error
b) Neither compilation nor Runtime Error
c) Compilation Error
  128) What will happen to the following?
       #include<iostream.h>
        void main()
         cout<<30<<endl;
         int &ref=30;
         ref=60;
         cout<<ref<<endl;
        a) output 30 30
                                                     b) compilation error
                                                                                          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;
                                             c) output 300
                                                                   d) output, garbage value
a) compilation error
                       b) output 600
   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;
                               b) 20 21
       a) 21 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;
         ptr=0;
         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
                                    b) runtime error
                                                          c) neither compilation nor runtime error
135) what is the output?
      #include<iostream.h>
       const int a=124;
       void main()
      const int* sample();
      int const* p;
      p=sample();
       const int* sample()
             return (&a);
a) compile time error
                        b) runtime error
                                            c) neither compilation nor runtime error
136) Given
  #include<iostream.h>
  void disp()
  {
      int *ptr=new int;
  void main()
      disp();
```



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In the above code after disp() method is over, the situation becomes c) None of these a) Dangling Poiner b) Memory Leak 137) Given #include<iostream.h> void main() int *ptr=new int; delete ptr; //Some other C++ Statements.... In the above code after "delete ptr" statement, the situation becomes a) Dangling Pointer b) Memory Leak c) None of these 138) What will happen? #include <iostream.h> int a=20; void main() { int *ptr; int *const retA(); ptr=retA(); cout<<*ptr; } int *const retA() return &a; } a) neither compile, nor runtime error 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; a) neither compile ,nor runtime error b) runtime error c) compiletime error 140) What is the referent in the following code? int main () {

int i = 0;



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```
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;
}
                                                               c) compiler error
                                       b) no output
                                                                                      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;
          }
          else {
       cout << "Address of pi and pj are different" < < endl;</pre>
          return 0;
 a) address of pi and pj are same
                                                                              c) compiler erro
 b) address of pi and pj are different
                                                                              d) none of these
 143) What is the output of the following code:
       int main()
         inti = 100;
          int &ri = i;
          ri = 200;
          ri = i;
```

i = ri;



```
cout << i << endl;
          return 0;
        }
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
           return 0;
                                                      d) You can't print global variable in main
a)cout<<i;
               b) cout<<::i;
                                      c) 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;
   }
         200
                         b)100
                                                 c) 300
                                                                     d)Compiler error
   a)
  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;
}
a) 100
                     b) Compiler error
                                                    c) Runtime error
                                                                                 d) 0
148) What is the output of the following code:
#include <iostream>
using namespace std;
int main()
int a[3] = \{10, 20, -30\};
int *p = &a[1];
  P--;
  cout << *p << endl;
  P--;
  cout << p[3] << endl;
  return 0;
}
                                                              c) 10 20
a)
      10 garbage value
                                     b) 10 -30
                                                                                   d) Runtime error
149) what is the output?
    #include <iostream>
    using namespace std;
    void f(inti)
      i = 40;
    void f1( int &k)
      k = 40;
    }
    int main()
    int j = 0;
    cout << j << endl;
    f(j);
    cout << j << endl;
    f1(j);
    cout <<j << endl;
    return 0;
    }
                            b) 0 0 0
                                                   c) 0 0 40
                                                                          d) Compiler error
a) 0 40
             40
150) What is the output?
#include <iostream>
using namespace std;
int i=0;
```



```
int& f()
   {
      return i;
   int g(int &ri)
      ri = 100;
      return 0;
   int main()
      cout << i << endl;
      g (f());
      cout << i << endl;
      return 0;
                                                                               100
                                                                    d) 0
a) compilation error
                          b) 0
                                    0
                                           c) 100
                                                           100
   151) What will be the output from the following program?
   #include <iostream>
   using namespace std;
   int main ()
   int i = 234;
   i|= 0; // or operator
   cout << i << endl;
   i &= 0; // and operator
   cout << i << endl;
   return 0;
   }
                                                        b) 0
        a) 0
                 0
                                                                234
        c) 234
                 0
                                                        d) Compiler error
   152) Will the following code compile and link? I' 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;
80
     i = 40 + 0;
09
10
11
     i = 0 + 0;
12
13
     i = 20;
14
      i += 5;
15
16
      Return 0;
17
      }
                      b) 25
                                               c) 0
                                                                       d) 5
a) 20
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;
}
a) I
                      b) j
                                               c) both I and j
                                                                                     d) none
158) Will the following code compile and link?
int main ()
```



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```
{
         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
 a) Yes
                                      b) no
160) What kind of error we will get in the following code? Compilation Error or Linking Error?
 void f();
 int main ()
 {
         f();
         return 0; -
a)compile time error
                               b)link error
                                                      c)runtime error
                                                                                    d)successful execution
161) What is the value of the following on MS Windows 2000 or 32-bit implementation of Linux?
      sizeof (unsigned short int)
      a) 2 bytes
                                b) 3 bytes
                                                                              d) 8 bytes
                                                       c) 4 bytes
 162) What is the output from the following program?
 #include <iostream>
 using namespace std;
 void f()
 {
         Int i = 10;
         cout << i < < endl;
         i++;
 }
 int main ()
 {
         f();
         f();
         return 0;
 }
 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?



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```
int f()
{
       return 100;
}
int main ()
      f();
       return 0;
}
                                     b) no
 a) yes
164) Will the following code give linking error as function f is not defined?
    int f();
    int main ()
    return 0;
    }
                                     b) no
    a) yes
165) Will the following code compile and link? If yes, what will be the output of the following program?
      #include <iostream>
      using namespace std;
      #ifdef 0
      int main()
      cout << "First main called" < < endl;</pre>
      return 0;
      #else
      int main()
      cout << "Second main called" << endl;</pre>
      return 0;
      #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;</pre>
    return 0;
    }
    #else
```

int main()



```
cout << "Second main called" << endl;</pre>
       return 0;
       #endif
a)compiler error
                               b)First main called
                                                      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 main()
   cout << "Second main called" << endl;
   return 0;
   }
   #endif
 a) compiler error as Num is not defined
                                                             b)First main called
 c)Second main called
                                                              d)None of the following
   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;
                        b)10
                                                                                     d)None of the above
   a) 10
            11
                                10
                                                      c)Compiletime error
   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;
     a) nothing wrong
                                                  b) u cant have; without any c++ expression
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;
     }
                            b) compile error
                                                                                d) successful output
    a) link error
                                                         c) runtime error
173) What is the output of the following code?
   #include <iostream>
   using namespace std,'
   int main ()
  int endI = 0;
   cout << endl << endl;
  return 0;
  }
                    b) 0
                                           c) Compilation error
                                                                                d) Runtime error
a) 0
174) What will happen to the following code?
int main ()
{
main();
return 0;
 a) Compile time error
 b) Link error
     U need to terminate this program explicitly as recursion happens here
```



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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; a) 100 b) Garbage c)Compiler error d)None of the following 176) what will happen to the following code? #define I 100 #undef I int main() int i = I; cout<<i<<endl; return 0; a) 100 c) Compiler error d)None of the following 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; } c) compilation error d) none of the above a) 4 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;</pre>
      return 0;
      }
      Hi and Hello on same line separated by tab
a)
      Hi and Hello on different lines
b)
      Compiler error as \n and \t can not be combined together
c)
d)
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
c) linking error
                                                    d) runtime err
182) what is the output?
      void printOutput(void);
      int main(void)
      printOutput();
      printOutput();
      return 0;
      void printOutput(void)
      static int liVar = 102;
      liVar--;
      printf("%d", liVar);
                             b) 101, 100
      a) 101, 101
                                                    c) 102, 102
                                                                           d) 102, 10
183) In the following C code snippet, what will be the output?
      char *str = NULL;
      if ((str != NULL) && (*str == 'A'))
      printf("success\n");
      else
      printf("Not found\n");
    (a) It can lead to a crash
                                    (b) Prints Success
                                                           (c) Prints not found (d) Compile time error
```





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



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





```
a) Yes
                              b) no
192) What is wrong in the following code? Will it compile and link?
     int main ()
     {{
     return 0;
 a) It will compile but not linked
                                                           b) It will not compile
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
                                                            d) None of the Above
     c) Both A) and B)
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 colorsIblack, blue, green };
    This represent
    a)black = 0, blue = 1, green = 2
    b)color[I] = '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) 11
     (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 0;
     }
     a) 1
                     b) 7
                                            c) O
                                                                   d) 823543
198) Is the following C++ code safe?
       int main(void)
       char *szBuffer = new char[64];
       strcpy(szBuffer, "Financial Technologies");
```

szBuffer++;



```
delete [] szBuffer;
       return 0;
       }
 a) Yes
                                      b) No
199) What will be the output of the following?
    int main(void)
    {
    int c = 7654;
    int *pc = &c;
    (*pC)++;
    printf("%d, %d", (*pc), c);
    return 0;
    }
                                                   b) Some Address Value, 7655
    a) 7654, 7654
    c) Some Address Value, 7654
                                                   d) 7655, 7655
200) Are both of these code segments functionally same?
    a) int *ptr = NULL;
    b) int *ptr;
    *ptr = NULL;
a)Yes
                                                   b) no
201) When following piece of code is executed, what happens?
     b=3;
     a = b++;
   a) a contains 3 and b contains 4
                                                   b) a contains 4 and b contains 4
   c) a contains 4 and b contains 3
                                                   d) a contains 3 and b contains 3
202) What will happen?
  #include<iostream.h>
  void main()
  {
      disp();
  void disp()
      cout<<"in disp";
a) warning
                                                          b) compilation error
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; }	
c) It will compile, link but fail at runtim 205) Will the following C++ program compile and li	b) It will not compile d) It will compile , link and run successfully. nk, or we need to include a header file like stdio.h o
iostream? int main() {	
a) It will compile but not linkedc) It will compile, link but fail at runtime.	b) It will not compiled) It will compile, link and run successfully.
206) What kind of error we will get in the following int main ()	g code? Compilation Error or LinkingError?
{ 0;	
return 0; }	
a) It will compile but not linked c) It will compile, link but fail at runtime.	b) It will not compiled) 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 Error? int main () { i; return 0; }	; code? Compilation Error on Linking
a) It will compile but not linkedc) It will compile, link but fail at runtime.	b) It will not compiled) It will compile, link and run successfully.
209) What kind of error we will get in the following Error? int main () { i = 0; return 0;	g code? Compilation Error or Linking
a) It will compile but not linked c) It will compile, link but fail at runtime.	b) It will not compiled) It will compile, link and run successfully.



	Inline functions are Run time	-	at pile time		c) Debug time	9		d) None of above
211)	Which type of varia a) All variables b) Universal variab		e referred fro	c) Loca	ere in the c++ I variables al variables	code?		
212)	What is the value o	f sizeof(ch b) 2	ar)?	c) 4		d) 8		
213)	If value has not typ a) Empty pointer	e, then th	e pointer poi b) Null poin	_		e known d pointer		d) None of above
214)	Which arithmetic o	peration (can be done i b) Division	n pointer?	c) Addition		c) None	e of above
215)	Which operator is u a) := b) =		mparing two	variables d) ==				
216)	Can #define accept a) Yes	paramete	rs b) No					
217)	What is the size of i a) 1 byte	nt datatyp b) 2 b		system? c) 4 by	te	d) 8 b	yte	
218)	How we define our a) #constant	name for b) #de		c) #def	ine_constant		d) #con	nstant_define
219)	\r is used for a) carriage return		b) new line		c) end of the	line		d) vertical tab
220)	C++ programs must a) start()	contain b) ma	in()	c) syste	m()	d) prog	ram()	
221)	Reference is like a a) Pointer b)St	ructure	c)Array	d)None	of above			
222)	Which is not C++ sto a) auto	orage class b) regi			c) static			d) iostream
#inc	What will happen ? lude <iostream.h> l main()</iostream.h>							
int *	fptr=new int; *ptr=30; cout< <endl<<*ptr< td=""><td><endl;< td=""><td></td><td></td><td></td><td></td><td></td><td></td></endl;<></td></endl<<*ptr<>	<endl;< td=""><td></td><td></td><td></td><td></td><td></td><td></td></endl;<>						
}	a) compilation error	r	b) runtime e	error	c) war	ning		d) output : 30





```
224) What will happen?
  #include<iostream.h>
  int val=100;
  void main()
  {
     int val=40;
     {
             int val=50;
             cout<<::val;
     }
  }
     a) output 100
                                   b) output 50
                                                         c) output 40
                                                                               d) compilation error
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++;
                   b) neither warning nor compilation error
                                                                        c) compilation error
a) warning
227) Will following code work?
   #include<iostream.h>
   void main()
   {
```



```
const int num;
   int const *ptr=#
   }
   a) No
                                              b) Yes
228) Will following code work?
#include<iostream.h>
void main()
{
const int num=60;
int const *const ptr=#
}
a) No
                                         b) Yes
229) Will following code work?
#include<iostream.h>
const int * fun()
static int num=40;
return #
void main()
int *ptr;
ptr=fun();
}
a) Yes
                                    b) No
230) Will Following code work?
#include<iostream.h>
const int * fun()
  {
  static int num=40;
  return #
  void main()
  const int *ptr;
  ptr=fun();
  a) Yes
                                           b) No
231) Will following code work?
  #include<iostream.h>
  const int * fun()
  static int num=40;
  return #
  }
  void main()
```



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



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```
236) What will happen?
 #include<iostream.h>
 void main()
 int num2=50;
 const int &ref=num2;
 a) it will work
                                       b) error
                                                                     c) warning
 240) Will following code work?
       #include<iostream.h>
       void main()
       int &ref=40;
                                           b) Yes
 a) No
 241) Will following code work?
       #include<iostream.h>
       void main()
       const int &k=400;
       a) Yes
                             b) No
 242) What will happen?
       #include<iostream.h>
       int * const fun()
       {
       int num=40;
       return #
       void main()
       const int * ptr=fun();
                             b) error
                                                  c) neither warning nor compilation error
       a) warning
243) The new operator
a) Obtains memory for variable
b) Returns the memory to the operating system
c) Creates a variable called new
d) returns the information about currently available memory in the system
244) 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





Oops

1) Copy Constructor is called when a) Object is initialized using another object b) Object is assigned to another object d) none of the above c) A and B both 2) What is the output? #include<iostream.h> class myclass public: static int counter; **}**; Int myclass::counter; void main() { cout<<myclass::counter; } b) compilation error "static member must be initialized" a) output 0 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 k; **}**; Which of the following is legal in a program that uses this class, after the following declaration: Zx; c) Z.ghi(); d) None of the above is legal a) x.ghi(); b) x.j = 'd';4) How does a object refer to itself? a) By passing itself to a constructor with itself as the parameter b) There is no way for a class to refer to itself c) By pointing to another class just like this one d) By using the this pointer 5) Which of the following is not required in a class that contains dynamic allocation? b) A constructor that copies variables into private variables a) The copy constructor c) Destructor d) All of the above are required 6) What is the output? #include<iostream.h> class X { int j; public: X()



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```
{
       this->j=0;
 }
 X(int n)
       this->j=n;
 X(const X &rhs)
       this->j=rhs.j;
 }
};
void main()
 X x1,x2(5);
 X \times 3(\times 2);
 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?
  a) 1 of them is legal
                            b) 2 of them is legal
                                                           c) 3 of them is legal
                                                                                         d) all of them are
 legal
 9) Can we have a private constructor in a class?
a) yes
                             c) no, only private functions are possible
                                                                                  d) none of the above.
               b) no
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;
 Sample(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;
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
```





```
c) assignment (runtime error)
                                                            d) 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;
 obj E;
a) in in in out out out out
c) in in out out in in out out
13) What will be the output?
#include<iostream.h>
#include<string.h>
class A
{
 int code;
 char name[20];
```

public: A() {

code=0;

A(int c,char *nm)

A(A &obj)

}

code=c;

strcpy(name,'\0');

strcpy(name,nm);

code=obj.code;

strcpy(name,obj.name);

- b) in in in out in out out out
- d) in in out out in out in out



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```
void show();
};
void A::show()
 cout<<endl<<"code= "<<code<<endl<<"name="<<name;
void main()
 A obj1(20,"AAA");
 A obj2(obj1);
 obj1.show();
 obj2.show();
}
                                                                        b) code =20 name =AAA for both
a) code=20 name= AAA for first and garbage value for second
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;
public:
 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";
 }
};
void main()
 name n1;
 name n2(n1);
                                    b) compile error
 a) output "in copy con"
                                                                  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
 public:
 SomeClass()
```



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```
cout<<endl<<"in SomeClass Def.Const\n";
~SomeClass()
cout<<endl<<"in SomeClass Destructor\n";
 };
 void main()
 SomeClass *s1=new SomeClass;
a) output "in SomeClass Def.Const"
b) Runtime error because of memory leak.
c) output "in SomeClass Def.Const in SomeClass Destructor"
d) compilation error because of incorrect syntax of 'new'
19) What is the output?
#include<iostream.h>
class myclass
public:
 static int counter;
};
void main()
 cout<<myclass::counter;
                      b) compilation error
a) output 0
                                                   c) Linking error
                                                                          d) output garbage value
20) The copy constructor would take a parameter by reference only
a) True
                                    b. False
21) The default access scope for a method in a C++ class is
a) Private
                                            b) Public
c) Protected
                                            d) Default
22) Where does memory get allocated for a static data members of a class
 a) Code/text
                                      b) Stack
 c) Heap
                                       d) Data
23) Namespaces
 a) Provide a logical grouping of objects
 b) Provide a logical grouping of classes
 c) Provide a physical grouping of objects
```

d) Provide a physical grouping of classes





```
24) class Foo
   int i;
 };
In the above sample, what is the member access specifier of the member data "i"?
 a) default
                      b) virtual
                                             c) protected
                                                                   d) private
                                                                                          e) public
28) Which of the following is the default namespace of C++?
 a) iostream b) standard
                                     c) std
                                                    d) stdio
29) What operator is prepended onto the member function name to indicate that the function is a
 destructor?
 a) & b) *
              c) ~
                      d) ::
                              e) –
30) Which one of the following statements is true about constructors and destructors?
 a) Both explicitly declared constructors and explicitly declared destructors are required in a class.
 b) Neither constructors nor destructors can take parameters.
 c) In a given class, constructors are always required, but destructors are not.
 d) Constructors can take parameters, but destructors cannot.
 e) It is illegal to define either a constructor or a destructor as virtual
31) A const object can access only const function
                             b) False
   a) true
32) Select correct statement/s for destructor
 a) Destructor is called when object goes out of scope
 b) By default destructor is not provided by compiler
 c) Destructor can not be overloaded
 d) In case of inheritance base class destructor is called before derived class
 e) Destructors can be virtual
33) Copy constructor is called in case...
 a) When an object is initialized using another object
 b) When object is passed to a function and collected in another object
 c) When object is returned from a function and collected in another object
 d) All of the above
34) What is the output?
#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 m1, m2(30);
a) output "in param const "
                                            b) output "in myclass def in param const"
c) compilation error
                                     d) runtime error
35) argument of copy constructor is object of same class.
                                 b. false
a. true
36) copy constructor is called whenever object is initialized using another reference.
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						
41) Member functions of a class are normally made and made	d data members of a class are normally					
42) The three member access specifiers are,	and					
43) is called when we initialized one object usin	g other object.					
44) The size of a class with no data members and member functio	ns is byte.					
45) keyword if used , constructor will not be available for conversion.						
46) destructor can be overloaded. a.true b.false						
47) if the main function is coded as						
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						
Then the output will be a) There was There was c) There was a cortain man There was a cortain man	b) There was There was a certain man					
c) There was a certain man There was a certain man 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. 50) Which one of the following options is correct? a) Friend function can access public data members of the class. b) Friend function can access protected data members of the class c) friend function can access private data members of the class d) All of the above	d) compile time error					

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

b) A class object and a class

c) A class and a member of that class

- d) A class object and a member of that class
- 53) A member function can always access the data
- a) in the object of which it is a member

- b) in the class of which it is a member
- c) in any object of the class of which it is a member
- d) in the public part of its class
- 54) which among the following type of pointer is used to represent an object that invokes a member function
- a) void pointer
- b) null pointer
- c) this pointer
- d) base pointer
- 55) Which among the following operator is used to identify the class to which a member function belongs
- a) ĺ

- b) []
- c) <u>::</u>
- d) .*

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)</pre>
```



```
cout<<"a certain man";
       }
       {
       mho operator-(mho y)
              mho ohm;
              return ohm;
       }
      if the function main is coded as
     mho a, b;
     then output will besss
     a) There was There was
                                           b) Nothing
     c) a runtime error
                                           d) There was a certain man There was a certain man.
 6) which of the following operators cannot be overloaded?
                                                  d) No such operator exists
                      b) ++
                                    c) ?:
 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;
       }
       else
              cout<<"Both are different"<<endl;
              return false;
       }
     void main()
       opOverload a1,a2;
       a1==a2;
 a) compile time error
                                    b) Runtime error
                                                                 c) No error
8) What is the result?
     #include<iostream.h>
     class myclass
     private:
```





```
int a,b;
      public:
        void set ab(int i,int j)
                a=i;
                b=j;
        friend int sum(myclass);
      };
      int sum(myclass obj)
        return obj.a+obj.b;
      }
      void main()
        myclass c1,c2;
        c1.set ab(10,20);
        c2.set ab(40,40);
        cout<<endl<<sum(c1);
        cout<<endl<<sum(c2);
      }
   a) Error: can't access the member function without a reference to the class
   b) Error: a non-member function can not access the data member of the class
   c) 30
             80
   d) Garbage value.
 9) Which operators can not be overloaded using friend function?
  a) ()
                       b) =
                                             c) []
                                                                   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 are
  a) different except similar except that the copy constructor creates a new object
```

- - b) that they both copy member data.
 - c) both (1) and (2)
 - d) None of the above.
- 14) We can't do anything in source when converting from user defined to primitive type.
- a) True
- b) False.

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- 15) When you overload assignment operator using friend function 2 arguments are required.
 - a) true b) false
- 16) Which of the following statements is false?
- a) Conversion operator function must return a value
- b) Conversion operator function must be written in destination
- c) Conversion operator function does not accept any argument
- d) Conversion operator function must be a member function.
- 17) Which of the following operators cannot be overloaded?
 - a) []

- b) ++
- c) ?:
- d) *
- 18) When overloading a unary operator using a friend function
 - a) requires no argument

b) requires one argument

c) requires tow argument

- d) take a defult argument
- 19) Operator function is declared in the
 - a) private section in the class

b) public section in the class

c) protected section in the class

d) Outside the class

Inheritance

```
1) What will happen to following code?
#include<iostream.h>
    class SomeClass
    {
    public:
    SomeClass()
    cout<<endl<<"in SomeClass Def.Const\n";
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:
```



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```
double d;
     Which of the following functions can be invoked by an object of class D?
                                                                  d) All of the above
 a) f()
                     b) g()
                                           c) h()
 2) What will be the output?
 #include<iostream.h>
 class base
 {
 public:
     base()
     {
             cout<<"\nIn base const\n";</pre>
             print();
     void disp()
             print();
     virtual void print()
             cout<<endl<<"In base print\n";
 };
 class derived:public base
 public:
     derived()
     {
             cout<<endl<<"In derived const\n";
     void print()
             cout<<endl<<"In derived print\n";
 };
 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

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PG DAC Aug 18 C++ Question Bank 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 a) overloading b) overriding c) redefinition d) None of these. 6) Casting a base class pointer to derived class pointer is called as d) None of the above. a) Upcasting b) Downcasting c) abstraction 7) 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 8) #include<iostream.h> class Base { public: int a; protected: int b; private: int c; **}**; class Derived:Base { int d;

b) a, b and d

c) only a

In the above code, which of the following variables can be accessed in "Friend"? a) only a and b 9) #include<iostream.h> class A int a; public: void fun() {

friend class Friend;

Derived derived;

};

};

class Friend

d) error



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



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



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```
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?

- a) 1
- b) 2
- c) 3

d) None

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

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





```
22) class A {
   public:
    A();
    void ~A();
    class B : public A { };
      What is WRONG with the class declarations above?
a) Class B must explicitly define a constructor.
b) The destructor in "A" cannot have a void return type.
c) Nothing is wrong with the code above.
d) Class B must define a destructor
e) "A" must provide a copy constructor in order for it to be used as a base class.
23) class X {
   int i;
   protected:
   float f;
   public:
   char c;
  };
   class Y: protected X { };
 Referring to the sample code above, which one of the following data members are accessible from class Y?
   a) c only
                        b) f and c only
                                               c) i and c only
                                                                      d) i and f only
                                                                                             e) i, f, and c
    24) class IntArrayRc: public IntArray;
    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;
         }
        };
```



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```
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";</pre>
           print();
    void print()
           cout<<endl<<"In base print\n";
    class derived:public base
public:
```

derived()



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



```
}
  };
  void main()
       child s(300);
  }
a) 420 100 200 300
                                                   b) 420 200 100 300
c) compilation error
                                                   d) 0 420 200 100 300
 29) A class is called as abstract base class if it has a function.
 30) What is the output?
  #include<iostream.h>
  class professor
  {
   public:
       professor()
              cout<<endl<<"professor";
  };
  class researcher
  {
  public:
       researcher()
              cout<<endl<<"researcher\n";
  };
  class teacher:public professor
   public:
       teacher()
              cout<<endl<<"teacher";
  };
  class myprofessor:public teacher,public virtual researcher
  public:
       myprofessor()
              cout<<endl<<"myprofessor\n";
  };
  void main()
       myprofessor obj;
```

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

32) previouslyprover	enables reusability which saves ting and high quality software.	ime in development , and encourages using			
33) A class which	n has pure virtual function is called	as			
34) When address of child class object is assigned to parent class pointer or reference, object slicing takes place.					
a) True		b) False			
35) Protected members can be inherited but not accessible in derived class.					
A) True		b) False			
•	ritance mode protected and public diclass respectively.	c members of parent class becomes a	and		

- 37) Which of the following access specifier is used as default in a class definition?
- a) protected
- b) Public
- c) Private
- d) Friend

- 38) How "Late binding" is implemented in C++?
- a) Using C++ tables

b) Using Virtual tables

c) Using Indexed virtual tables

- d) Using polymorphic tables
- 39) Which of the following is used to make an abstract class?
- a) Declaring it abstract using static keyword.
- b) Declaring it abstract using virtual keyword.
- c) Making at least one member function as virtual function.

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- d) Making at least one member function as pure virtual function.
- 40) Which of the following statements is true about inheritance.
- a) If no constructors are specified for a derived class, objects of the derived class will use the constructors of base class.
- b) Private members of base class can be access by derived class member functions or objects of derived class.
- c) An object of derived class can be access private or protected members of base class
- d) In public inheritance the protected member of the base class become public for the functions outside the derived class
- 41) Which of the following cannot be used with the keyword virtual?
- a) class

- b) member functions
- c) constructor
- d) destructor

- 42) Which of the following concepts is used to implement late binding?
- a) Virtual function
- b) Operator function
- c) Const function
- d) Static function

43) Which inheritance type is used in the class given below?

Class A :public X, public Y {}

a) Multilevel inheritance

b) Multiple inheritance

c) Hybrid inheritance

- d) Hierarchical inheritance
- 44) Assume a class Derv that is privately derived from class Base. An object of class Derv located in main() can access
- a) public member of Derv

b) protected members of derv

c) public member of Base

- d) protected members of Base
- 45) When both base and derived class contain constructors & destructor's which of the following choice is
- 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?
                             b) destructors
                                                            c) static functions
                                                                                     d) None of the above
   a) constructors
4) VTABLE contains
                                                    b) addresses of virtual pointers
   a) addresses of virtual functions
                                                            d) None of the above
   c) address of virtual table
5) What will be the output?
   #include<iostream.h>
   class base
   {
   public:
      int bval;
      base()
              bval=0;
   };
   class deri:public base
   {
   public:
      int bval;
      deri()
              bval=1;
   };
   void SomeFunc(base *arr,int size)
      for(int i=0;i<size;i++,arr++)</pre>
             cout<<arr->bval<<"\t";
```



```
cout<<endl;
     void main()
        base BaseArr[5];
        SomeFunc(BaseArr,5);
        deri DeriArr[5];
        SomeFunc(DeriArr,5);
  a) 00000
     1010
  b) 01101
      01010
c) 01011
     11010
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
                                                                                  c) 4
                                                                                                        d) 5
     7) What is the output?
     #include<iostream.h>
     class base
     {
     public:
        virtual void disp()
               cout<<"base disp\n";
     };
```



```
class sub1:public base
  public:
     void disp()
             cout<<"sub1 disp\n";
     }
  };
   class sub2:public sub1
  public:
     void disp()
             cout<<endl<<"sub2 disp\n";
      }
  };
  void main()
      base *b;
     sub1 s1,*s2;
     sub2 s3,*s4;
     b=&s1;
     s2=dynamic_cast<sub1*>(b);
      if(s2)
     {
             s2->disp();
      }
     else
     {
             cout<<"failed\n";
     s4=dynamic_cast<sub2*>(b);
     if(s4)
             s4->disp();
      }
     else
      {
             cout<<"failed\n";
      }
  }
a) Error
                                   b) sub1 disp sub2 disp
                                                                     c) sub1 disp failed
d) sub1 disp
              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";</pre>
};
void main()
  base *b;
  sub1 s1,*s2;
  sub2 s3,*s4;
  b=&s3;
  s2=dynamic cast<sub1*>(b);
  if(s2)
   {
          s2->disp();
  else
          cout<<"failed\n";
   s4=dynamic cast<sub2*>(b);
  if(s4)
  {
          s4->disp();
  }
  else
  {
          cout<<"failed\n";
   }
}
                                 b) sub1 disp sub2 disp
                                                                       c) failed sub2 disp
a) sub2 disp 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);
  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
     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;
a) compilation error
                              b) output "in sub disp"
                                                                   c) linking errord) runtime error
 11) What will be the output?
 #include<iostream.h>
 class base
 {
 public:
       virtual void disp()
               cout<<endl<<"in base disp\n";
 };
 class sub:public base
 public:
       void disp()
               cout<<endl<<"in sub disp\n";
       void print()
               cout<<endl<<"in print";
 };
 void main()
       base *b=new sub;
       b->disp();
       b->print();
 }
      a) output "in base disp in print"
                                                            b)output "in sub 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";
```



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```
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) 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";</pre>
    };
    void main()
```

base *b;



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```
sub1 s1,*s2;
       sub2 s3,*s4;
       b=&s3;
       s2=dynamic cast<sub1*>(b);
       if(s2)
               s2->disp();
       else
       {
               cout<<"failed\n";
       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
    14) 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
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
                                                          d) Can never say
  c) Converts to desired type
18) A constructor can be marked as virtual
  a)True
                                   b) False
19) What is the output?
     #include <iostream.h>
     class base
     {
     public:
     base()
     {
             cout<<"base def.\n";
             disp();
     virtual void disp()=0;
     class sub:public base
     public:
     sub()
     {
             cout<<"sub def\n";
     void disp()
             cout<<endl<<"in sub disp\n";
     };
     void main()
```





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



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





27) In case of dynamic polymorphism using either	, availability of child or	-	pointer can be checked
28) Virtual pointer (vptr) points to vir a)true	tual function. b)false		
29) There is only one virtual table get a) true	s created for a class b) false	no matter how many	instances are created.
30) Abstract class can not have non-v a)true	irtual functions. b) false		
31) The operator used for getting the a) Typeof c) Type	type_info object is b) Typeid d) Typeinf		
1) Difference between text and bin a) How newline is treated c) How numeric data is stored	·	on File is represented	
2) What is false about cin?a) object of istreamc) it is not a function		standard input read input from user	's terminal
3) 'ios' stream is derived from iost a) true b) f	ream ^f alse		
4) The objects that correspond to a) cin b) cout	the standard device c) clog	=	de of the above.
5) Which of the following is the ba a) istream b) iostrea			e) ostream
6) Serialization is the process ofa) Converting bytes to objectsc) Converting bytes to classes	•	verting objects to byte verting classes to byte	
7) Which is the proper prototype fa) istream operator>>(istream,c) istream& operator>>(istream)	CPoint);	b) istream operator>	
8) extraction operator is used with (a) True b)	cout. False		
9) The class which allows us to read	d as well as write in	a file is	





Templates

- 1) Templates can be distributed to the client through a) header file b) lib file c) both A and B d) templates can not be distributed at all 2) Which of the following is not a valid initialization of a template class, assuming the class is declared as template<class T> class Pair { } a) Pair <int> b) Pair<char> c) Pair <abc> (assuming abc is a user defined class) d)All of the above are valid initializations of a template class 3) The STL makes abundant use of a) inheritance b) virtual functions c) friend functions d) None of the above. 4) Template classes can be inherited a) True b) False 5) #include<iostream.h> template<class T,class X> class obj { T my_t; X my_x; public: $obj(T t,X x):my_t(t),my_x(x)$ Referring to the sample code above which one of the following is a valid conversion operator for the type T? a) T operator T(){ return my t;} b) T operator (T) const{return my t;} c) operator(T) {return my_t;} d) operator T() const{ return my_t;} 6) Given following class template. #include <iostream.h> template<class t1,class t2> class myclass { **}**; Write a statement which will direct a compiler to a) generate this class for double and char respectively. b) Create object of this class "m1" on stack. 7) Which one support unknown data types in a single framework? a) inheritance b)virtual functions d) templates. c) abstract base class
 - 8) Which one support unknown data types in a single framework?





- a) inheritance
- b) virtual functions
- c) abstract base class
- d) templates
- 7) 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.
- 8) 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.
- 9) 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
- 10) 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
- 11) 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