

Multiple Choice Questions

Q1 How many loops are there in C++?

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

Q2 What is the output of the below code?

```
int main() {  
    if(0)  
    {  
        cout<<"Hi";  
    }  
    else  
    {  
        cout<<"Bye";  
    }  
    return 0;  
}
```

- (A) Hi
- (B) Bye
- (C) HiBye
- (D) Compilation Error

Q3 Which operator can not be overloaded?

- A) +
- B) -
- C) *
- D) ::

Q4 Which operator has more precedence in below list?

- A) +

- B) -
- C) ++
- D) *

Q5 What should be the output of below program?

```
int main()
{
    int a=10;
    cout<<a++;
    return 0;
}
```

- A) 10
- B) 11
- C) 12
- D) Not defined

Q6 What is the output

```
#include<iostream.h>
void Execute(int &x, int y = 200)
{
    int TEMP = x + y;
    x+= TEMP;
    if(y!=200)
        cout<<TEMP<<x<<y"--";
}
int main()
{
    int A=50, B=20;
    cout<<A<<B<<"--";
    Execute(A,B);
    cout<<A<<B<<"--";
    return 0;
}
```

}

- A) 5020--5020--
- B) 5020--7012020--12020--
- C) 5020--70120200--5020
- D) 5020--7050200--5020—

Q7 Can we overload functions in C++?

- (A) Yes
- (B) No
- (C) Compilation Error
- (D) Runtime Error

Q8 How many times Cpp.com is printed?

```
int main()
{
    int i=0;
    lbl:
    cout<<"Cpp.com";
    i++;
    if(i<5)
    {
        goto lbl;
    }
    return 0;
}
```

- A) Error
- B) 5 times
- C) 4 times
- D) 6 times

Q9 Which operator has highest precedence?

- A) ()
- B) =
- C) *
- D) ++

Q10 What is the value of a in below program?

```
int main()
{
    int a, b=20;
    a = 90/b;
    return 0;
}
```

- (A) 4.5
- (B) 4.0
- (C) 4
- (D) Compilation Error

Q11 What is the output

```
class base
{
public:
    base()
    {
        cout<<"BCon";
    }
    ~base()
    {
        cout<<"BDest ";
    }
};

class derived: public base
{
public:
    derived()
    {
        cout<<"DCon ";
    }
    ~derived()
    {
        cout<<"DDest ";
    }
};
```

```
int main()
{
    derived object;
    return 0;
}
```

- (A) Dcon DDest
- (B) Dcon DDest BCon BDest
- (C) BCon DCon DDest BDest
- (D) BCon DCon BDes DDest

Q12 Can a Structure contain pointer to itself?

- (A) Yes
- (B) No
- (C) Compilation Error
- (D) Runtime Error

Q13 What should be the output of below program?

```
int main()
{
    int a = 1;
    switch(a)
    {
        case 1: cout<<"One";
        case 2: cout<<"Two";
        case 3: cout<<"Three";
        default: cout<<"Default";
    }
    return 0;
}
```

- (A) One
- (B) Compilation Error
- (C) Default
- (D) OneTwoThree

Q14 What is the output

```
class Mycpp
{
    int Mycpp()
    {
        cout<<"Constructor";
        return 0;
    }
};

int main()
{
    Mycpp obj;
    return 0;
}
```

- (A) Constructor
- (B) 0
- (C) Compilation Error
- (D) Runtime Error

Q15 What is the output

```
#include <iostream>
using namespace std;

class X
{
public: X()
    { cout<<"X"; }
    ~X()
    { cout<<"~X"; }
};

class Y : public X
{
public: Y()
    { cout<<"Y"; }
    ~Y()
    { cout<<"~Y"; }
};

int main()
{
    Y obj;
    return 0;
}
(A) XY~X~Y
(B) XY~Y~X
(C) X~XY~Y
(D) X~X~YY
```

Q16 What is abstract class?

- (A) A class with abstract keyword
- (B) A class with no functions in it
- (C) A class with atleast one pure virtual function
- (D) Empty Class

Q17 Is it good idea to return an address or a reference of a local variable?

- (A) Yes
- (B) No

Q18 What is the output

```
int main()
{
```

```

int i=0,x=0;

for(i=1;i<10;i*=2)
{
    x++;
    cout<<x;
}
cout<<x;

return 0;
}

```

- (A) 1234567899
- (B) 12345678910
- (C) 123455
- (D) 12344

Q19 What is the output

```

int main()
{
for(int i=1;i<=2;i++)
{
for(int j=i;j<=2;j++)
cout<<i<<@;
}
}

```

- (A) 1@2@
- (B) 1@2@1@
- (C) 1@1@2@
- (D) 1@2@2@

Q20 Which part of memory is used for the allocation of local variables declared inside any function.

- (A) Heap
- (B) Stack
- (C) Address Space
- (D) Depends on Compiler

Programming

Program 1:

Create a dynamic array of employees.

Private Members –

Name char*

Age int

Salary float

Constructor should allocate memory to Name.

Ask user for size of the employee list

Member functions – void AcceptData()

Void DisplayData()

Program 2:

Create Class Complex with following private member data

Float x, float y

Overload operator + so main program can create two objects of complex, add them and then display the values.

Program 3:

Class alpha :

Private member data x

Parameterize constructor to initialize x

Member function to display x

Class beta:

Private member data y

Parameterized constructor to initialize y

Member function to display y

Class gamma - inherit from alpha and beta

Private data member u, v

Constructor to initialize all data

Member function to display u, v

Create object of gamma and call member function to display all the data of itself and parents.

Program 4:

Write a program to find a list of prime numbers using constructor.

Accept from user the number till which prime numbers are to be printed

Program 5:

Class Point

Private Member data int x, y

Create a friend function to Point to exchange the values of x and y

