

Assignment 4

Q.A. Answer the following questions in one or two lines :

1. Write a syntax of constructor.
2. Constructors do not have return type. State true/false.
3. Whenever an object is destroyed which function is called ?
4. “Constructors can’t have all arguments as default arguments”. State true / false.
5. Write a syntax for copy constructors.
6. Differentiate between copy Constructor and default Constructor.
7. A destructor can be overloaded in a class. State true or false.
8. The destructor can have different name as the class . State true/false.
9. Default Constructor is always called without any arguments. State true / false.
10. At least how many constructors contain class in CPP.

Q.B. Answer the following questions :

1. Explain new and delete operators with suitable example.
2. What is constructor? List types of constructors. Explain overloading of constructor with example.
3. What is copy constructor ? What is its purpose? Explain with example.
4. What is parameterized Constructor? Explain with example.
5. Consider a class “Game” which has data members - no_of_Players and names of players. The numbers of players can vary from each Game Object. Define a class with appropriate dynamic constructor to initialize the object and accept player names. Also write a member function to display details.
6. What are rules for defining a Constructor.

Q.C. Trace the Output :

1. What is the output of the following program: (Assume there are no syntax errors)

```
#include<iostream.h>
class A
{ public :
    A()
    {
        cout<<"\n Object Created";
    }
    ~A()
    {
        cout<<"\n Object Destroyed";
    }
};
A a1;
int main()
{
    A a2;
    {
        A a3;
    }
}
```

```
        exit(0);
    }
```

2. Identify errors in the following :

```
class A
{
    int m,n;
public:
    A()
    {
        m=0;
        n=0;
    }
    A(int m)
    {
        this->m=m;
        n=m;
    }
    A(int m,int n)
    {
        this->m=m;
        this->n=n;
    }
    A(const A & ob)
    {
        m=ob.m;
        n=ob.n;
    }
    void show();
}
void show()
{
    cout<<m<<n;
}
int main()
{
    A o1(3),o2,o3(6,9);
    A o4(o1);
    o1.show();
    o2.show();
    o3.show();
    o4.show();
    return 0;
}
```