## Computer Programming (B) - Quiz 4 Roll Number:

Total Time: 10 Minutes
Total Marks: 10

Important Note: Negative marks will be awarded for any suspicious

activity found during/in the quiz.

**Question:** Write the output/Errors for the program given below

```
#include<iostream>
using namespace std;
class Rectangle
{
private:
    int* lenght;
    int* width;
public:
    Rectangle(int l = 0, int w = 0);
    Rectangle(const Rectangle&);
    ~Rectangle();
    void Print();
    const Rectangle & operator=(const
Rectangle&);
    Rectangle GetRotatedRect()
    {
         cout << "----"
<< endl;
         Rectangle temp;
         *temp.lenght = *width;
         *temp.width = *lenght;
         cout << "###########"
<< endl;
```

```
Rectangle::~Rectangle()
{
     cout << "Destructor Called for</pre>
rectangle " << *lenght << " X " <<</pre>
*width << "\n\n";
     delete lenght;
     delete width;
}
const Rectangle&
Rectangle::operator=(const Rectangle&
rhs)
{
     cout << "Overloaded Assignment</pre>
Operator Called for LHS " <<
*rhs.lenght << " X " << *rhs.width <<
endl:
     if (&rhs != this)
     {
          *lenght = *rhs.lenght;
          *width = *rhs.width;
     }
     return *this;
}
void Rectangle::Print()
```

```
return temp;
                                          {
     }
                                               cout << *lenght << " X " << *width</pre>
                                          << endl << endl;
};
                                          }
Rectangle::Rectangle(int l, int w)
                                          void main()
{
                                          {
     cout << "Constructor Called for "</pre>
<< l << " X " << w << ".\n\n";
                                               Rectangle r1(2, 3);
                                               Rectangle r2;
     lenght = new int(l);
     width = new int(w);
}
                                               r2 = r1.GetRotatedRect();
                                               cout << "r2:\t";
Rectangle::Rectangle(const Rectangle&
                                               r2.Print();
rhs)
                                          }
{
     cout << "Copy Constructor Called</pre>
to create a copy of Rectangle " <<
*rhs.lenght << " X " << *rhs.width <<
endl;
     lenght = new int(*rhs.lenght);
     width = new int(*rhs.width);
}
```

Output/Errors: