

Computer Programming (CS-B) Quiz 04 FALL 2018

Name & Roll No. Total marks: 10 Total Time: 10 Mins.

Q1. Consider the following classes write the output of the program and explain what you should do to make the outputs 10, 30, 40.

```
class Polygon {
 protected:
    int width, height;
  public:
    void set values (int a, int b)
      { width=a; height=b; }
    void print()
     cout<<width<<" "<<height<<endl;</pre>
};
class Rectangle: public Polygon {
  private:
     int length;
 public:
    int set values(int a, int b, int c)
      { Polygon::set values(a,b);
        length=c;
    void print()
       cout<<width<<" "<<height<<"
"<<length<<endl;
};
void temp(Polygon & obj)
     obj.print();
int main () {
 Rectangle rect;
  Polygon poly;
  rect.set values(4,5);
  poly.set_values(10, 20, 30);
 temp(rect);
 temp(poly);
  return 0;
```

Solution:

Outputs in both cases will be 4, 5 and 10, 20.

To make the output 10,30, 40 we must make the print function virtual.