

Student ID: \_\_\_\_\_

Section: \_\_\_\_\_

Spring 2019 – Object Oriented Programming

Quiz No. 2 SOLUTION

Time Allowed: 20 min

Points: 10

**Q): Consider the following scenario:**

```
class First
{
private :
    int a;
protected :
    int b;
public :
    int c;
    First() { }
    void showFirst() { }
};
class Second:public First
{
private :
    int d;
protected :
    int e;
public :
    int f;
    Second() { }
    void showSecond() { }
};
class Third :public Second
{
private :
    int g;
protected:
    int h;
public :
    int i;
    Third() { }
    void showThird() { }
};

int main()
{
}
```

1. Which data members can be accessed by **First** class object?
2. Which data members can be accessed by **Second** class object?
3. Which data members can be accessed by **Third** class object?
4. Which member functions can be accessed by **First** class object?
5. Which member functions can be accessed by **Second** class object?
6. Which member functions can be accessed by **Third** class object?
7. Which data members can be accessed in **Second** class?
8. Which data members can be accessed in **Third** class?
9. In which sequence, constructors will be called when **Second** class object is created?
10. In which sequence, constructors will be called when **Third** class object is created?

1.	c
2.	c,f
3.	c,f,i
4.	Showfirst()
5.	Showfirst(),ShowSecond()
6.	Showfirst(),ShowSecond(),ShowThird()
7.	b,c,d,e,f
8.	b,c,e,f,g,h,i
9.	First()->Second()
10.	First()->Second()->Third()