Quiz 2 - Lesson – 5 & 6 [10 Points]

Student id : Name : Date: 10/14/17

I. Circle the right choice. (Each 1 Point)

1. What is the output of the following code?

```
interface i1 {
        default int show() {
                return 100;
        }
}
abstract class A {
        public int show() {
                return 50;
        }
}
public class TestClass extends A implements i1 {
        public static void main(String args[]) {
                TestClass t = new TestClass();
                System.out.println(t.show());
        }
}
```

a) 100 b) 50 c) Run time Error d) Compile time error

2. What is the output of the following code?

```
interface i1 {
        default int show() {
                return 100;
        }
}
interface i2 {
        default int show() {
                return 50;
        }
}
public class TestClass implements i1,i2 {
        public static void main(String args[]) {
                TestClass t = new TestClass();
                System.out.println(t.show());
        }
}
```

due to this it brings Compile time error.

a) 100 b) 50 c) Run time Error d) Compile time error

3. What will be happen when the following code is compiled and the main method of the QuizQuesion class is run? Circle the right choice.

```
public interface Compute {
        default int compute(int x, int y) {
                return x * y;
        }
}
```

```
public class Impl implements Compute{
   }
public class QuizQuesion {
 public static void main(String args[]){
        Impl obj = new Impl();
        System.out.println(obj.compute(5, 5));
 }
 }
```

A. Compiler error B. Runtime error C. Outputs 25 to the console

4. What is the output of the given code?

```
public class Person {
        private String fname;
        private String lname;
        public Person(String fname, String lname) {
                this.fname = fname;
                this.lname = lname;
        }
}
public class Test {
        public static void main(String[] args) {
                        Person p1 = new Person("John","Britto");
                        Person p2 = new Person("John","Britto");
                        System.out.println(p2.equals(p2));
        }
```

a. true b. false

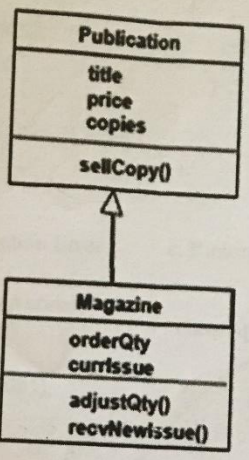
5. What is the output of the given code?

```
final class A {
   void meth1() {
      System.out.println("Class A");
     }
}

class B extends A{
    void meth1() {
  System.out.println("Class B");
}
}
```

a. Compilation Error b. No Compilation Error

6. Look at the diagram below and decide which of the pairs of operations shown are legal and illegal.



a) `Publication p = new Publication(...);`
`p.sellCopy();`

a) Answer: legal

b) `Publication p = new Publication(...);`
`p.recvNewIssue();`

b) Answer: illegal

c) `Publication p = new Magazine(...);`
`p.sellCopy();`

c) Answer: legal

d) `Publication p = new Magazine(...);`
`p.recvNewIssue();`

d) Answer: legal

In order to be right

Magazin M1 = new Magazin();
M1.recvNewIssue();
legal

p is a type of Publication. So you can not invoke recvNewIssue() although compile fine.

7. Is it proper overriding?

```
public class S{
    public void print(){
      System.out.println("S"); }
}
public class T extends S{
    public void print(String msg){
      System.out.println(msg); }
}
```

a. True b. False

8. What is the output of the given code?

```
class Fruit{
        Fruit(String name){
          System.out.println(name);
        }
}
public class Sample {
        public static void main(String[] args) {
     Fruit ob = new Apple();
        }
}
class Apple extends Fruit{
        Apple(){
                System.out.println("Apple");
        }
}
```

a. Apple b. Compilation Error c. Runtime Error

9. What is the output of the given code?

```
class Fruit{
        Fruit(){
          System.out.println("Fruit");
        }
}
public class Sample {
        public static void main(String[] args) {
     Fruit ob = new Apple();
        }
}
class Apple extends Fruit{
        Apple(){
                System.out.println("Apple");
        }
}
```

a. Apple b. Fruit c. Apple d. Compilation Error

Apple Fruit

10. What is the output of the given code?

```
abstract class AProduct{
  private String productid;
  public void setProductId (String id){
   productid=id;
  }
  public String getProductId (){
   return productid;
  }
   public abstract double getPrice();
}

class Bicycle extends AProduct
{
  public  double getPrice(){
   return 230.45;
  }
}

class Test {
 public static void main(String[] args) {
  AProduct myProduct = new AProduct();
   System.out.println(myProduct.getPrice());
}
}
```

if it is an abstract class we can't able to create object

a) 230.45 b) 0.0 c) Run time Error d) Compile time error