Question **1**

Complete

Mark 1.00 out of 1.00

Study the following Java code:

```
public final class Test {
   void f() {
      System.out.print(1);
   }
}
class Test2 extends Test {
    void f() {
        System.out.print(2);
    }
}
class Program {
     public static void main (String[] args){
         Test obj = new Test2();
         obj.f();
     }
}
```

What is it's result?

Select one:

- a. 1
- b. Compile-time error
- c. None of the others
- d. 2

The correct answer is: Compile-time error

Question 2

Complete

Mark 1.00 out of 1.00

Study the following code:

```
public class Test {
    int x= 5;
    int y=2;
    public static void main (String[] args){
        Test obj;
        obj.x=10;
        obj.y=20;
        System.out.println(obj.x + obj.y);
    }
}
```

What is output?

Select one:

- a. None of the others
- b. 7
- c. 30
- d. Error

The correct answer is: Error

Question 3

Complete

Mark 1.00 out of 1.00

Hiding internal data from the outside world, and accessing it only through publicly exposed methods is known as data .....

Select one:

- a. encapsulation
- b. specification
- c. grouping
- d. aggregation

The correct answer is: encapsulation

Question **4**

Complete

Mark 1.00 out of 1.00

Inheritance implementations in OO languages support a way to .....

Select one or more:

- [ ] a. cause more complexity in programming.
- [ ] b. increase the cost of software deveopment.
- [x] c. re-use codes.
- [x] d. reduce the cost of software development.

The correct answers are: re-use codes., reduce the cost of software development.

Question 5

Complete

Mark 1.00 out of 1.00

Common behavior can be defined in a **superclass** and inherited into a **subclass** using the.....keyword.
A collection of methods with no implementation is called an .....

Select one:

- a. is, interface
- b. extends, abstract class
- c. extends, interface
- d. implements, abstract class
- e. None of the others

The correct answer is: extends, interface

Question **6**

Complete

Mark 1.00 out of 1.00

Study the following declarations:

```
class A {
   int x=5;
   void MA() { }
   void MA(int x) { }
   void M() { }
}
class B extends A {
   int y=6;
   public void M(){
      System.out.print(x +y );
   }
}
```

Select one:

- a. Both overriding and overloading method techniques are used.
- b. None of the others.
- c. The abstraction feature is used.
- d. Overloading method technique is used.
- e. Overriding method technique is used.

The correct answer is: Both overriding and overloading method techniques are used.

Question 7

Complete

Mark 1.00 out of 1.00

Stydy the following code:

```
class A {
   int x=5;
   void M() { System.out.print(x);}
}
class B extends A {
   int y=6;
   public void M() { System.out.print(x +y );   }
}
class C extends B {
   int z=2;
   public void M() {    System.out.print(x +y+z );   }
}
```

Code for using classes:

```
A obj= new C();
obj.M();
```

Select one:

- a. A compile-time error.
- b. The output is 5
- c. None of the others.
- d. The output is 13

The correct answer is: The output is 13

Question 8

Complete

Mark 0.00 out of 1.00

Study the following code:

```
class A {
   int x=5;
   void M() { System.out.print(x);}
}
class B extends A {
   int y=6;
   public void M() { System.out.print(x );   }
}
class C {
   int x=2;
   public void M() {    System.out.print(x );   }
}
```

Code for using classes:

```
A obj= new C();
obj.M();
```

Select one:

- a. A compile-time error.
- b. The output is 2
- c. None of the others.
- d. The output is 5

The correct answer is: A compile-time error.

Question 9

Complete

Mark 1.00 out of 1.00

Study the following code:

```
public interface MyInterface {

 void M1(double x);

 void M2(int aValue) { System.out.println("Hi Mom " + aValue); }

}
```

Select one:

- a. This code will be compiled successfully.
- b. This code will be compiled to the MyInterface.class file
- c. None of the others.
- d. This code causes an error when it is compiled.

The correct answer is: This code causes an error when it is compiled.

Question 10

Complete

Mark 1.00 out of 1.00

Select correct declarations:

(1) **interface MyInterface** {
}

(2) **abstract class A** {
void M1() { System.out.print("M1") ; }
void M2() { System.out.print("M2") ; }
}

(3) **class B** {
abstract void M1() { System.out.print("M1") ; }
void M2() { System.out.print("M2") ; }
}

Select one or more:

- [x] a. 1
- [x] b. 2
- [ ] c. 3

The correct answers are: 1, 2