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Started on	Saturday, 8 October 2022, 11:50 AM
State	Finished
Completed on	Saturday, 8 October 2022, 12:00 PM
Time taken	9 mins 22 secs
Grade	6.00 out of 8.00 (75%)

Question 1

Not answered

Marked out of 2.00

What will be the output of the following code?

```
class Base {
    public void Print() {
        System.out.println("Base");
    }
}

class Derived extends Base {
    public void Print() {
        System.out.println("Derived");
    }
}

class Main{
    public static void DoPrint( Base o ) {
        o.Print();
    }
    public static void main(String[] args) {
        Base x = new Base();
        Base y = new Derived();
        Derived z = new Derived();
        DoPrint(x);
        DoPrint(y);
        DoPrint(z);
    }
}
```

- ☐ a. Base
Base
Derived
- ☐ b. Compilation Error
- ☐ c. Base
Derived
Derived
- ☐ d. Base
Derived
Base

Your answer is incorrect.

The correct answer is:

Base

Derived

Derived

Question 2

Correct

Mark 2.00 out of 2.00

If you have the following classes. Which of the following constructors would be valid for **Point3D**?

```
public class Point2D {
    public int x;
    public int y;

    public Point2D() {}

    public Point2D(int x,int y) {
        this.x = x;
        this.y = y;
    }
    // other methods
}

public class Point3D extends Point2D
{
    public int z;

    // other code
}

-----
I. public Point3D() {}
II. public Point3D(int x, int y, int z)
    {
        super(x,y);
        this.z = z;
    }
III. public Point3D(int x, int y)
    {
        this.x = x;
        this.y = y;
        this.z = 0;
    }
```

- ☐ a. III only
- ☐ b. I and II only
- ☒ c. I, II and III
- ☐ d. II only
- ☐ e. I only



Your answer is correct.

The correct answer is:

I, II and III

Question **3**

Correct

Mark 1.00 out of 1.00

Which of the following is true about inheritance in Java?

- 1) Private methods are final.
- 2) Protected members are accessible within a package and inherited classes outside the package.
- 3) Protected methods are final.
- 4) We cannot override private methods

- ☒ a. 1, 2 and 4
- ☐ b. 2, 3 and 4
- ☐ c. 1, 2 and 3
- ☐ d. Only 1 and 2



Your answer is correct.

The correct answer is:

1, 2 and 4

Question 4

Correct

Mark 2.00 out of 2.00

What will be the output of following code?

```
class Alpha
{
    int i;
}
class Beta extends Alpha
{
    int j;
    void display()
    {
        super.i = j + 1;
        System.out.println(j + " " + i);
    }
}
class inheritance
{
    public static void main(String args[])
    {
        Beta obj = new Beta();
        obj.i=1;
        obj.j=2;
        obj.display();
    }
}
```

- ☐ a. 2 2
- ☒ b. 2 3
- ☐ c. 3 2
- ☐ d. 3 3



Your answer is correct.

The correct answer is:

2 3

Question 5

Correct

Mark 1.00 out of 1.00

What will be the output of following code?

```
class Base {  
    final public void show() {  
        System.out.println("Base::show() called");  
    }  
}  
  
class Derived extends Base {  
    public void show() {  
        System.out.println("Derived::show() called");  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Base b = new Derived();  
        b.show();  
    }  
}
```

- ☐ a. Derived::show() called
- ☒ b. Compiler Error
- ☐ c. No Output
- ☐ d. Base::show() called



Your answer is correct.

The correct answer is:
Compiler Error

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