Question **1**

Not yet answered

Marked out of 1.00

What is the output of the following code?

```
1.interface Printable {
2.    public int getPageNumber(int input);
3.}
4.class Shape implements Printable {
5.    public String getPageNumber() { return "4"; }
6.    public String getPageNumber(int input) { return "6"; }
7.    public static void main(String[] args) {
8.          System.out.println(new Shape().getPageNumber(-1));
9.    }
10.}
```

Select one:

- a. 4
- b. The code will not compile because of line 6.
- c. 6

/

Question **2**

Not yet answered

Marked out of 1.00

What is the output of the following code?

```
 1: abstract class Shape {
 2:   public final void print() { System.out.println("Shape prints");  }
 3:     public static void main(String[] args) {
 4:     Shape shape = new Rectangle();
 5:     shape.print();
 6:   }
 7: }
 8: public class Rectangle extends Shape {
 9:   public void print() { System.out.println("Rectangle prints"); }
10: }
```

Select one:

- a. The code will not compile because of line 4.
- b. Shape prints
- c. Rectangle prints
- d. The code will not compile because of line 9.

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Question **3**

Not yet answered

Marked out of 1.00

What is the output of the following code?

```
1: class Shape
2:   public void printName(double input) { System.out.print("Shape"); }
3: }
4: public class Rectangle extends Shape {
5:   public void printName(int input) { System.out.print("Rectangle"); }
6:   public static void main(String[] args) {
7:     Rectangle r = new Rectangle();
8:     r.printName(4);
9:     r.printName(9.0);
10:   }
11: }
```

Select one:

- a. RectangleRectangle
- b. The code will not compile because of line 9.
- c. The code will not compile because of line 5.
- d. RectangleShape

Question **4**

Not yet answered

Marked out of 1.00

What modifiers are assumed for all interface variables?

Select one or more:

- [x] a. final
- [x] b. static
- [x] c. public
- [ ] d. protected
- [ ] e. private
- [ ] f. abstract

Question **5**

Not yet answered

Marked out of 1.00

Choose the correct statement about the following code:

```
1: public interface Printable {
2:   void myMethod();
3: }
4: interface Formattable {
5:   public abstract Object format();
6: }
7: abstract class Paper implements Printable, Formattable {
8: }
```

Select one:

- (●) a. It compiles without issue.
- ( ) b. The code will not compile because the class Paper doesn't implement the interface methods.
- ( ) c. The code will not compile because of line 5.

Question **6**

Not yet answered

Marked out of 1.00

What modifiers are **implicitly** applied to all interface methods?

Select one:

- a. static
- b. default
- c. abstract
- d. public

Question **7**

Not yet answered

Marked out of 1.00

Which of the following statements about polymorphism are FALSE?

Select one:

- a. A reference to an object can be cast to a subclass of the object without an explicit cast.
- b. A method that takes a parameter of type java.lang.Object will accept any reference including null.
- c. If a method takes a superclass of four objects, then any of those classes may be passed as a parameter to the method.

Question **8**

Not yet answered

Marked out of 1.00

Which statements are true for both abstract classes and interfaces?

Select one or more:

- [ ] a. abstract classes and interfaces inherit java.lang.Object.
- [ ] b. All methods within abstract classes and interfaces are assumed to be abstract.
- [x] c. abstract classes and interfaces cannot be instantiated directly.
- [x] d. abstract classes and interfaces can contain public static final variables.
- [x] e. abstract classes and interfaces can contain static methods.

Question **9**

Not yet answered

Marked out of 1.00

Which of the following is true about a **concrete subclass**?

Select one or more:

- [ ] a. A concrete subclass can be declared as abstract with abstract key word.
- [ ] b. The abstract methods cannot be overridden by a concrete subclass.
- [ ] c. A concrete subclass cannot be marked as final.
- [x] d. A concrete subclass must implement all inherited abstract methods.

Question **10**

Not yet answered

Marked out of 1.00

Which of the following statements can be inserted in the ___ so that the code will compile successfully?

```
public class Shape {}
public class Circle extends Shape {}
public class Rectangle {}
public class ShapeHandler {
    private Shape shape;
    public void setShape(Shape shape) { this.shape = shape; }
    public static void main(String[] args) {
        new ShapeHandler().setShape(___);
    }
}
```

Select one or more:

- [ ] a. new Rectangle()
- [ ] b. new Object()
- [x] c. new Circle()
- [x] d. new Shape()

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