

## Exam 808: Java SE 8

### 1. Given:

```
import java.util.ArrayList;
import java.util.List;

public class JavaSETest {
    public static void main(String[] args) {
        List<Integer> elements = new ArrayList<>();
        elements.add(10);
        int firstElmnt = elements.get(1);
        System.out.println(firstElmnt);
    }
}
```

What is the result?

- A) null
- B) 10
- C) 0
- D) An `IndexOutOfBoundsException` is thrown at runtime.

### 2. Given the code fragment:

```
// Line n1
switch (cardVal) {
    case 4: case 5: case 6:
    case 7: case 8:
        System.out.println("Hit");
        break;
    case 9: case 10: case 11:
        System.out.println("Double");
        break;
    case 15: case 16:
        System.out.println("Surrender");
        break;
    default:
        System.out.println("Stand");
}
```

Which two code fragments can be inserted at Line n1, independently, enable to print Stand?

- A) `int cardVal = 6;`
- B) `int cardVal = 10;`
- C) `int cardVal = 14;`
- D) `int cardVal = 18;`

**3. Given:**

```
abstract class Writer {
    public static void write() {
        System.out.println("Writing...");
    }
}
class Author extends Writer {
    public static void write() {
        System.out.println("Writing book");
    }
}
public class Programmer extends Writer {
    public static void write() {
        System.out.println("Writing code");
    }
    public static void main(String[] args) {
        Writer w = new Programmer();
        w.write();
    }
}
```

**What is the result?**

- A) Writing...
- B) Writing book
- C) Writing code
- D) Compilation fails.

**4. Given:**

```
class SuperClass {
    SuperClass(int x) {
        System.out.println("Super");
    }
}

public class SubClass extends SuperClass {
    SubClass() {
        // Line n1
        System.out.println("Sub 2");
    }
}
```

**Which statement, when inserted at Line n1, enables the code to compile?**

- A) this(10);
- B) super(10);
- C) SuperClass(10);
- D) super.SuperClass (10);

5. Given the code fragment:

```
public class TestClass {  
    public static void main(String[] args) {  
        List<String> items = new ArrayList<>();  
        items.add("Pen");  
        items.add("Pencil");  
        items.add("Box");  
        for (String i : items) {  
            if (i.indexOf("P") == 0) {  
                continue;  
            } else {  
                System.out.print(i+" ");  
            }  
        }  
    }  
}
```

What is the result?

- A) Pen Pencil Box
- B) Pen Pencil
- C) Box
- D) Compilation fails.

6. Which access modifier makes a member available only to classes within the same package or subclasses?

- A) private
- B) protected
- C) public
- D) package-private

7. Given the code fragment:

```
public class Test {  
    public static void main(String[] args) {  
        int x = 10;  
        int y = 2;  
        try {  
            for (int z = 2; z >= 0; z--) {  
                int ans = x / z;  
                System.out.print(ans+ " ");  
            }  
        } catch (Exception e1) {  
            System.out.println("E1");  
        } catch (ArithmeticException e1) {  
            System.out.println("E2");  
        }  
    }  
}
```

What is the result?

- A) E1
- B) E2
- C) 5 10 E1
- D) **Compilation fails.**

8. Given the code fragment:

```
StringBuilder s1 = new StringBuilder("Java");  
String s2 = "Love";  
s1.append(s2);  
s1.substring(4);  
int foundAt = s1.indexOf(s2);  
System.out.println(foundAt);
```

What is the result?

- A) -1
- B) 3
- C) **4**
- D) A `StringIndexOutOfBoundsException` is thrown at runtime.

**Answers:**

- 1) D
- 2) C and D
- 3) A
- 4) B
- 5) C
- 6) B
- 7) D
- 8) C