

Exam Number/Code : 1Z0-851

Exam Name: Java Standard Edition 6
Programmer Certified
Professional Exam

Version : Demo

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QUESTION 1

Given:

```
public class Threads2 implements Runnable {
    public void run() {
        System.out.println("run.");
        throw new RuntimeException("Problem");
    }

    public static void main(String[] args) {
        Thread t = new Thread(new Threads2());
        t.start();
        System.out.println("End of method.");
    }
}
```

Which two can be results? (Choose two.)

- A. java.lang.RuntimeException: Problem
- B. run.
java.lang.RuntimeException: Problem
- C. End of method.
java.lang.RuntimeException: Problem
- D. End of method.
run.
java.lang.RuntimeException: Problem
- E. run.
java.lang.RuntimeException: Problem
End of method.

Answer: DE

Explanation/Reference:

End of method.

run.

```
Exception in thread "Thread-0" java.lang.RuntimeException: Problem
    at Threads2.run(Threads2.java:5)
    at java.lang.Thread.run(Unknown Source)
```

QUESTION 2

Which two statements are true? (Choose two.)

- A. It is possible for more than two threads to deadlock at once.

- B. The JVM implementation guarantees that multiple threads cannot enter into a deadlocked state.
- C. Deadlocked threads release once their sleep() method's sleep duration has expired.
- D. Deadlocking can occur only when the wait(), notify(), and notifyAll() methods are used incorrectly.
- E. It is possible for a single-threaded application to deadlock if synchronized blocks are used incorrectly.
- F. If a piece of code is capable of deadlocking, you cannot eliminate the possibility of deadlocking by inserting invocations of Thread.yield().

Answer: AF

QUESTION 3

Given:

```
void waitForSignal() {
    Object obj = new Object();
    synchronized (Thread.currentThread()) {
        obj.wait();
        obj.notify();
    }
}
```

Which statement is true?

- A. This code can throw an InterruptedException.
- B. This code can throw an IllegalMonitorStateException.
- C. This code can throw a TimeoutException after ten minutes.
- D. Reversing the order of obj.wait() and obj.notify() might cause this method to complete normally.
- E. A call to notify() or notifyAll() from another thread might cause this method to complete normally.
- F. This code does NOT compile unless "obj.wait()" is replaced with "((Thread) obj).wait()".

Answer: B

Explanation/Reference:

Not quite sure about the answer, because first of all this code will not compile:

```
Threads2.java:15:                                     unreported           exception
java.lang.InterruptedException; must be caught or declared to be
thrown
```

```
    obj.wait();
```

```
        ^
```

1 error

QUESTION 4

Given:

```
class PingPong2 {
    synchronized void hit(long n) {
        for(int i = 1; i < 3; i++)
            System.out.print(n + "-" + i + " ");
    }
}

public class Tester implements Runnable {
    static PingPong2 pp2 = new PingPong2();

    public static void main(String[] args) {
        new Thread(new Tester()).start();
        new Thread(new Tester()).start();
    }

    public void run() { pp2.hit(Thread.currentThread().getId()); }
}
```

Which statement is true?

- A. The output could be 5-1 6-1 6-2 5-2
- B. The output could be 6-1 6-2 5-1 5-2
- C. The output could be 6-1 5-2 6-2 5-1
- D. The output could be 6-1 6-2 5-1 7-1

Answer: B

QUESTION 5

Given:

```
public class Threads4 {
    public static void main (String[] args) {
        new Threads4().go();
    }

    public void go() {
        Runnable r = new Runnable() {
            public void run() {
```

```

        System.out.print("foo");
    }
};
Thread t = new Thread(r);
t.start();
t.start();
}
}

```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. The code executes normally and prints "foo".
- D. The code executes normally, but nothing is printed.

Answer: B

Explanation/Reference:

```

Exception in thread "main" java.lang.IllegalThreadStateException
    at java.lang.Thread.start(Unknown Source)
    at Threads4.go(Threads4.java:14)
    at Threads4.main(Threads4.java:3)
foo

```

QUESTION 6

Given:

```

public abstract class Shape {
    private int x;
    private int y;

    public abstract void draw();

    public void setAnchor(int x, int y) {
        this.x = x;
        this.y = y;
    }
}

```

Which two classes use the Shape class correctly? (Choose two.)

- A. **public class** Circle **implements** Shape {
 private int radius;

- ```

}
B. public abstract class Circle extends Shape {
 private int radius;
}
C. public class Circle extends Shape {
 private int radius;
 public void draw();
}
D. public abstract class Circle implements Shape {
 private int radius;
 public void draw();
}
E. public class Circle extends Shape {
 private int radius;
 public void draw() { /* code here */ }
}
F. public abstract class Circle implements Shape {
 private int radius;
 public void draw() { /* code here */ }
}

```

**Answer:** BE

## QUESTION 7

Given:

```

public class Barn {
 public static void main(String[] args) {
 new Barn().go("hi", 1);
 new Barn().go("hi", "world", 2);
 }

 public void go(String... y, int x) {
 System.out.print(y[y.length - 1] + " ");
 }
}

```

What is the result?

- A. hi hi
- B. hi world

- C. world world
- D. Compilation fails.
- E. An exception is thrown at runtime.

**Answer:** D

**Explanation/Reference:**

The method `go(String[], int)` in the type `Barn` is not applicable for the arguments `(String, int)`

The variable argument type `String` of the method `go` must be the last parameter

**QUESTION 8**

Given:

```
class Nav{
 public enum Direction { NORTH, SOUTH, EAST, WEST }
}

public class Sprite{
 // insert code here
}
```

Which code, inserted at line 14, allows the `Sprite` class to compile?

- A. `Direction d = NORTH;`
- B. `Nav.Direction d = NORTH;`
- C. `Direction d = Direction.NORTH;`
- D. `Nav.Direction d = Nav.Direction.NORTH;`

**Answer:** D

**QUESTION 9**

Which statement is true about the classes and interfaces in the exhibit?

- 01. `public interface A {`
- 02. `public void doSomething(String thing);`
- 03. `}`
  
- 01. `public class AImpl implements A {`
- 02. `public void doSomething(String msg) {}`

```
03. }
```

```
01. public class B {
02. public A doit(){
03. //more code here
04. }
05. public String execute(){
06. //more code here
07. }
08. }
```

```
01. public class C extends B {
02. public AImpl doit(){
03. //more code here
04. }
05.
06. public Object execute() {
07. //more code here
08. }
09. }
```

- A. Compilation will succeed for all classes and interfaces.
- B. Compilation of class C will fail because of an error in line 2.
- C. Compilation of class C will fail because of an error in line 6.
- D. Compilation of class AImpl will fail because of an error in line 2.

**Answer:** C

**Explanation/Reference:**

The return type is incompatible with B.execute()

**QUESTION 10**

What is the result?

```
11. public class Person {
12. String name = "No name";
13. public Person(String nm) { name = nm; }
14. }
15.
16. public class Employee extends Person {
17. String empID = "0000";
18. public Employee(String id) { empID = id; }
19. }
```



```
20.
21. public class EmployeeTest {
22. public static void main(String[] args){
23. Employee e = new Employee("4321");
24. System.out.println(e.empID);
25. }
26. }
```

- A. 4321
- B. 0000
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 18.

**Answer:** D

**Explanation/Reference:**

Implicit super constructor Person() is undefined. Must explicitly invoke another constructor