

1Z0-819^{Q&As}

Java SE 11 Developer

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QUESTION 1

Given:

```
var c = new CopyOnWriteArrayList<>(List.of("1", "2", "3", "4"));
Runnable r = () -> {
    try {
        Thread.sleep(150);
    }
    catch (InterruptedException e) {
        System.out.println(e);
    }
    c.set(3, "four");
    System.out.print(c + " ");
};
Thread t = new Thread(r);
t.start();
for(var s: c) {
    System.out.print(s + " ");
    Thread.sleep(100);
}
```

What is the output?

- A. 1 2 [1, 2, 3, four] 3 four
- B. 1 2 [1, 2, 3, 4] 3 4
- C. 1 2 [1, 2, 3, 4] 3 four
- D. 1 2 [1, 2, 3, four] 3 4

Correct Answer: D

D is right because Main thread will also print data and r thread is also print data and those data will be different from each other.

QUESTION 2

Given:

```
package test;
import java.time.*;
public class Diary {
    private LocalDate now = LocalDate.now();
    public LocalDate getDate() {
        return now;
    }
}
```

and

```
package test;
public class Tester {
    public static void main(String[] args) {
        Diary d = new Diary();
        System.out.println(d.getDate());
    }
}
```

Which statement is true?

- A. Class Tester does not need to import java.time.LocalDate because it is already visible to members of the package test.
- B. All classes from the package java.time. are loaded for the class Diary.
- C. Only LocalDate class from java.time package is loaded.
- D. Tester must import java.time.LocalDate in order to compile.

Correct Answer: A

QUESTION 3

Which two expressions create a valid Java Path instance? (Choose two.)

- A. Paths.get("foo")
- B. Paths.getPath("too")
- C. Path.get(new URI("file:///domains/oracle/test.txt"))
- D. new Path("foo")
- E. Paths.get(URL.create("file:///domains/oracle/test.txt"))

Correct Answer: AE

QUESTION 4

Given:

```
public interface A {  
    abstract void x();  
}
```

and

```
public abstract class B /* position 1 */ {  
    /* position 2 */  
    public void x() { }  
    public abstract void z();  
}
```

and

```
public class C extends B implements A {  
    /* position 3 */  
}
```

Which code, when inserted at one or more marked positions, would allow classes B and C to compile?

- A. @Override // position 3 void x () {} // position 3 @Override // position 3 public void z() {} // position 3
- B. @Override // position 2 public void z() {} // position 3
- C. implements A // position 1 @Override // position 2
- D. public void z() {} // position 3

Correct Answer: D

QUESTION 5

Given:

```
interface Abacus{
    public int calc (int a, int b);
}

public class Main {
    public static void main (String[] args) {
        int result = 0;
        // line 1
        result = aba.calc(10, 20);
        System.out.println(result);
    }
}
```

Which two codes, independently, can be inserted in line to 1 compile?

- A. Abacus aba = (int m, int n) -> { m * n };
- B. Abacus aba = (int e, int f) -> { return e * f; };
- C. Abacus aba = (a, b) -> a * b;
- D. Abacus aba = v, w -> x * y;
- E. Abacus aba = (int i, j) -> (return i * j;);

Correct Answer: CE

QUESTION 6

Which describes an aspect of Java that contributes to high performance?

- A. Java prioritizes garbage collection.
- B. Java has a library of built-in functions that can be used to enable pipeline burst execution.
- C. Java monitors and optimizes code that is frequently executed.
- D. Java automatically parallelizes code execution.

Correct Answer: C

QUESTION 7

Given:

```
public interface A {  
    abstract void x();  
    public default void y() { }  
}
```

and

```
public abstract class B {  
    public abstract void z();  
}
```

and

```
public class C extends B implements A {  
    /* insert code here */  
}
```

What code inserted into class C would allow it to compile?

- A. public void x() {} public void z() {}
- B. public void x() {} protected void y() { super.y(); } public void z() {}
- C. void x() {} public void y() {} public void z() {}
- D. void x() { super.y(); } public void z() {}
- E. void x() {} public void z() {}

Correct Answer: A

QUESTION 8

Given these two classes:

```
public class Resource {
    public Worker owner;
    public synchronized boolean claim(Worker worker) {
        if (owner == null) {
            owner = worker;
            return true;
        }
        else return false;
    }
    public synchronized void release() {
        owner = null;
    }
}

public class Worker {
    public synchronized void work(Resource... resources) {
        for (int i = 0; i < 10; i++) {
            while (!resources[0].claim(this)) { }
            while (!resources[1].claim(this)) { }
            // do work with resource
            resources[1].release();
            resources[0].release();
        }
    }
}
```

And given this fragment:

```
Worker w1 = new Worker();
Worker w2 = new Worker();
Resource r1 = new Resource();
Resource r2 = new Resource();
new Thread( () -> {
    w1.work(r1, r2);
} ).start();
new Thread( () -> {
    w2.work(r2, r1);
} ).start();
```

Which describes the fragment?

- A. It throws `IllegalMonitorStateException`.
- B. It is subject to deadlock.
- C. It is subject to livelock.

D. The code does not compile.

Correct Answer: B

QUESTION 9

Which code fragment added to line 1 enables the code to compile and print Hello Joe?

- A.

```
interface Greeting {  
    public default void greet(String name) {  
        System.out.println(greet+name);  
    }  
}
```
- B.

```
public static void greet(String s) {  
    System.out.println("Hello "+ s);  
}
```
- C.

```
System.out.println("Hello " + name);  
}
```
- D.

```
static class Greeting {  
    public void greet(String name) {  
        System.out.println("Hello " + name);  
    }  
}
```

- A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: C

QUESTION 10

Given:

```
public class X {  
  
}
```

and

```
public final class Y extends X {  
  
}
```

What is the result of compiling these two classes?

- A. The compilation fails because there is no zero args constructor defined in class X.
- B. The compilation fails because either class X or class Y needs to implement the toString() method.
- C. The compilation fails because a final class cannot extend another class.
- D. The compilation succeeds.

Correct Answer: B

```
13  
14 public class Main {  
15     public static void main (String[] args) {  
16         public class X {  
17  
18             }  
19  
20     public final class Y extends X {  
21  
22     }  
23 }  
24
```

QUESTION 11

Given:

```
1. public class Test {
2.     private static class Greet {
3.         private void print() {
4.             System.out.println("Hello World");
5.         }
6.     }
7.     public static void main(String[] args) {
8.         Test.Greet i = new Greet();
9.         i.print();
10.    }
11. }
```

What is the result?

- A. The compilation fails at line 9.
- B. The compilation fails at line 2.
- C. Hello World
- D. The compilation fails at line 8.

Correct Answer: C

```
1 public class Test {  
2     private static class Greet {  
3         private void print() {  
4             System.out.println("Hello World");  
5         }  
6     }  
7     public static void main(String[] args) {  
8         Test.Greet i = new Greet();  
9         i.print();  
10    }  
11 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.16 sec(s), Memory: 32504 kilobyte(s)

Hello World

QUESTION 12

Given:

```
public method foo() throws FooException {  
    ...  
}
```

and omitting the throws FooException clause results in a compilation error. Which statement is true about FooException?

- A. FooException is a subclass of RuntimeException.
- B. FooException is unchecked.
- C. The body of foo can only throw FooException.
- D. The body of foo can throw FooException or one of its subclasses.

Correct Answer: D

Reference: <https://stackoverflow.com/questions/47871728/throwing-a-parent-class-exception-force-to-throw-its-sub-class-exception-event-t>

QUESTION 13

Given:

```
public class Test {  
    public static void main(String[] args) {  
        int x;  
        int y = 5;  
        if (y > 2) {  
            x = ++y;  
            y = x + 7;  
        } else {  
            y++;  
        }  
        System.out.print(x + " " + y);  
    }  
}
```

What is the result?

- A. compilation error
- B. 0 5
- C. 6 13
- D. 5 12

Correct Answer: A

```
1 public class Test {
2     public static void main (String[] args) {
3         int x;
4         int y = 5;
5         if (y > 2) {
6             x = ++y;
7             y = x + 7;
8         } else {
9             y++;
10
11         System.out.print(x + " "+y);
12     }
13 }
```

✖ variable x might not have been initialized

QUESTION 14

Which two are functional interfaces? (Choose two.)

- A. `@FunctionalInterface`
`interface MyRunnable {`
 `public void run();`
`}`
- B. `@FunctionalInterface`
`interface MyRunnable {`
 `public void run();`
 `public void call();`
`}`
- C. `interface MyRunnable {`
 `public default void run() {}`
 `public void run(String s);`
`}`
- D. `@FunctionalInterface`
`interface MyRunnable {`
`}`
- E. `interface MyRunnable {`
 `@FunctionalInterface`
 `public void run();`
`}`

- A. Option A
- B. Option B
- C. Option C

D. Option D

E. Option E

Correct Answer: CE

Reference: <http://tutorials.jenkov.com/java-functional-programming/functional-interfaces.html>

QUESTION 15

Given:

```
LocalDate d1 = LocalDate.of(1997,2,7);
```

```
DateTimeFormatter dtf =
```

```
DateTimeFormatter.ofPattern( /*insert code here*/ );
```

```
System.out.println(dtf.format (d1));
```

Which pattern formats the date as Friday 7th of February 1997?

A. "eeee dd+"th of"+ MMM yyyy"

B. "eeee dd\\'th of\\' MMM yyyy"

C. "eeee d+"th of"+ MMMM yyyy"

D. "eeee d\\'th of\\' MMMM yyyy"

Correct Answer: D

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