



# Oracle

1Z0-816 Exam

Oracle Java SE 11 Programmer II Exam

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## Version: 4.0

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### Question: 1

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Given the code fragment:

```
Path currentFile = Paths.get("/scratch/exam/temp.txt");
```

```
Path outputFile = Paths.get("/scratch/exam/new.txt");
```

```
Path directory = Paths.get("/scratch/");
```

```
Files.copy(currentFile, outputFile);
```

```
Files.copy(outputFile, directory);
```

```
Files.delete (outputFile);
```

The /scratch/exam/temp.txt file exists. The /scratch/exam/new.txt and /scratch/new.txt files do not exist.

What is the result?

- A. /scratch/exam/new.txt and /scratch/new.txt are deleted.
- B. The program throws a FileAlreadyExistsException.
- C. The program throws a NoSuchFileException.
- D. A copy of /scratch/exam/new.txt exists in the /scratch directory and /scratch/exam/new.txt is deleted.

---

**Answer: C**

---

Explanation:

```
27 public class Main {
28     public static void main(String[] args) {
29         Path currentFile = Paths.get("/scratch/exam/temp.txt");
30         Path outputFile = Paths.get("/scratch/exam/new.txt");
31         Path directory = Paths.get("/scratch/");
32
33         Files.copy(currentFile, outputFile);
34         Files.copy(outputFile, directory);
35         Files.delete (outputFile);
36     }
37 }
38
```

---

### Question: 2

---

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

---

**Answer: CE**

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Reference:

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

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### Question: 3

---

Given the declaration:

```
@interface Resource {  
    String name();  
    int priority() default 0;  
}
```

Examine this code fragment:

```
/* Loc1 */ class ProcessOrders { ... }
```

Which two annotations may be applied at Loc1 in the code fragment? (Choose two.)

- A. @Resource(priority=100)
- B. @Resource(priority=0)
- C. @Resource(name="Customer1", priority=100)
- D. @Resource(name="Customer1")
- E. @Resource

---

**Answer: AB**

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### Question: 4

---

Given:

```
interface MyInterface1 {
    public int method() throws Exception;
    private void pMethod() { /* an implementation of pMethod */ }
}
interface MyInterface2 {
    public static void sMethod() { /* an implementation of sMethod */ }
    public boolean equals();
}
interface MyInterface3 {
    public void method();
    public void method(String str);
}
interface MyInterface4 {
    public void dMethod() { /* an implementation of dMethod */ }
    public void method();
}
interface MyInterface5 {
    public static void sMethod();
    public void method(String str);
}
```

Which two interfaces can be used in lambda expressions? (Choose two.)

- A. MyInterface1
- B. MyInterface3
- C. MyInterface5
- D. MyInterface2
- E. MyInterface4

---

**Answer: CD**

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Reference:

<https://dzone.com/articles/functional-interface-and-lambda-expression>

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**Question: 5**

---

Given this enum declaration:

```
1. enum Alphabet {  
2.     A, B, C  
3.  
4. }
```

Examine this code:

```
System.out.println(Alphabet.getFirstLetter());
```

What code should be written at line 3 to make this code print A?

- A. final String getFirstLetter() { return A.toString(); }
- B. static String getFirstLetter() { return Alphabet.values()[1].toString(); }
- C. static String getFirstLetter() { return A.toString(); }
- D. String getFirstLetter() { return A.toString(); }

---

**Answer: C**

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**Question: 6**

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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.

---

**Answer: D**

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### Question: 7

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Given:

```
public interface TestInterface {
    default void samplingProbeProcedure() {
        probeProcedure();
        System.out.println("Collect Sample");
        System.out.println("Leave Asteroid");
        System.out.println("Dock with Main Craft");
    }
    default void explosionProbeProcedure() {
        probeProcedure();
        System.out.println("Explode")
    }
}
```

Examine these requirements:

- Eliminate code duplication.
  - Keep constant the number of methods other classes may implement from this interface.
- Which method can be added to meet these requirements?

- A. `private default void probeProcedure() {  
 System.out.println("Launch Probe");  
 System.out.println("Land on Asteroid");  
}`
- B. `static void probeProcedure() {  
 System.out.println("Launch Probe");  
 System.out.println("Land on Asteroid");  
}`
- C. `private void probeProcedure() {  
 System.out.println("Launch Probe");  
 System.out.println("Land on Asteroid");  
}`
- D. `default void probeProcedure() {  
 System.out.println("Launch Probe");  
 System.out.println("Land on Asteroid");  
}`

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

---

**Answer: B**

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**Question: 8**

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Given:

```
public class Main {
    public static void main(String[] args) {
        Thread t1 = new Thread(new MyThread());
        Thread t2 = new Thread(new MyThread());
        Thread t3 = new Thread(new MyThread());

        t1.start();
        t2.run();
        t3.start();

        t1.start();
    }
}
class MyThread implements Runnable {
    public void run() {
        System.out.println("Running.");
    }
}
```

Which one is correct?

- A. An `IllegalThreadStateException` is thrown at run time.
- B. Three threads are created.
- C. The compilation fails.
- D. Four threads are created.

---

**Answer: A**

---

Explanation:

```
Running.
Running.
Running.

Exception in thread "main" java.lang.IllegalThreadStateException
at java.base/java.lang.Thread.start(Thread.java:794)
at Main.main(Main.java:12)
```



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**Question: 9**

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Which code fragment does a service use to load the service provider with a Print interface?

- A. `private Print print = com.service.Provider.getInstance();`
- B. `private java.util.ServiceLoader<Print> loader = ServiceLoader.load (Print.class);`
- C. `private java.util.ServiceLoader<Print> loader = new java.util.ServiceLoader<> ();`
- D. `private Print print = new com.service.Provider.PrintImpl();`

---

**Answer: B**

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Reference:

<https://docs.oracle.com/javase/8/docs/api/?java/util/ServiceLoader>

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**Question: 10**

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Examine these module declarations:

```
module ServiceAPI {
    exports com.example.api;
}

module ServiceProvider {
    requires ServiceAPI;
    provides com.example.api with com.myimpl.Impl;
}

module Consumer {
    requires ServiceAPI;
    uses com.example.api;
}
```

Which two statements are correct? (Choose two.)

- A. The ServiceProvider module is the only module that, at run time, can provide the com.example.api API.
- B. The placement of the com.example.api API in a separate module, ServiceAPI, makes it easy to install multiple provider modules.
- C. The Consumer module should require the ServiceProvider module.
- D. The ServiceProvider module should export the com.myimpl package.
- E. The ServiceProvider module does not know the identity of a module (such as Consumer) that uses the com.example.api API.

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**Answer: AC**

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