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**Exam** : **1z1-816**

**Title** : **Java SE 11 Programmer II**

**Vendor** : **Oracle**

**Version** : **DEMO**

**NO.1** Which three annotation uses are valid? (Choose three.)

- A. `Function<String, String> func = (@NonNull x) -> x.toUpperCase();`
- B. `var v = "Hello" + (@Intermed) "World"`
- C. `var myString = (@NonNull String) str;`
- D. `var obj = new @Intermed MyObject();`
- E. `Function<String, String> func = (@NonNull var x) -> x.toUpperCase();`
- F. `Function<String, String> func = (var @NonNull x) -> x.toUpperCase();`

**Answer:** A,D,F

**NO.2** Which code fragment prints 100 random numbers?

- A. 

```
var r= new Random();
new DoubleStream(r::nextDouble).limit(100).forEach(System.out::print);
```
- B. 

```
DoubleStream.generate(Random::nextDouble)
    .limit (100).forEach(System.out::print);
```
- C. 

```
Doublestream.generate(Random.nextDouble).limit(100).forEach(System.out.print);
```
- D. 

```
var r = new Random(); DoubleStream.generate(r::nextDouble).limit(100).forEach(System.out::print);
```

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

**Answer:** B

Reference:

<https://www.javacodegeeks.com/2014/01/java-util-random-in-java-8.html>

**NO.3** Which is a proper JDBC URL?

- A. `http://localhost.mysql.com:3306/database`
- B. `jdbc:mysql://localhost:3306/database`
- C. `http://localhost mysql.jdbc:3306/database`
- D. `jdbe.mysql.com://localhost:3306/database`

**Answer:** B

Reference:

<https://vladmihalcea.com/jdbc-driver-connection-url-strings/>

**NO.4** Given:

`List<String> longlist = List.of("Hello", "World", "Beat");`

`List<String> shortlist = new ArrayList<>();`

Which code fragment correctly forms a short list of words containing the letter "e"?

- A. `longList.stream()  
 .filter(w -> w.indexOf('e') != -1)  
 .parallel()  
 .forEach(w -> shortList.add(w));`
- B. `longList.parallelStream()  
 .filter(w -> w.indexOf('e') != -1)  
 .forEach(w -> shortList.add(w));`
- C. `shortList = longList.stream()  
 .filter(w -> w.indexOf('e') != -1)  
 .parallel()  
 .collect(Collectors.toList());`
- D. `longList.stream()  
 .filter(w -> w.indexOf('e') != -1)  
 .parallel()  
 .collect(shortlist);`

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

**Answer:** D

**NO.5** Given:

```
var data = new ArrayList<>();  
data.add("Peter");  
data.add(30);  
data.add("Market Road");  
data.set(1, 25);  
data.remove(2);  
data.set(3, 1000L);  
System.out.print(data);
```

What is the output?

- A. [Peter, 30, Market Road]  
B. An exception is thrown at run time.  
C. [Peter, 25, null, 1000]  
D. [Market Road, 1000]

**Answer:** B

Explanation:

```

Console 1
Exception in thread "main" java.lang.IndexOutOfBoundsException: Index 3 out of bounds for length 2
    at java.base/jdk.internal.util.Preconditions.outOfBounds(Preconditions.java:64)
    at java.base/jdk.internal.util.Preconditions.outOfBoundsCheckIndex(Preconditions.java:70)
    at java.base/jdk.internal.util.Preconditions.checkIndex(Preconditions.java:248)
    at java.base/java.util.Objects.checkIndex(Objects.java:372)
    at java.base/java.util.ArrayList.set(ArrayList.java:472)
    at abc.main(abc.java:13)

Completed with exit code: 1

```

**NO.6** Given:

```

public class Confidential implements Serializable{
    private String data;

    public Confidential(String data) {
        this.data = data;
    }
}

```

Which two are secure serialization of these objects? (Choose two.)

- A. Implement only writeReplace to replace the instance with a serial proxy and not readResolve.
- B. Define the serialPersistentFields array field.
- C. Implement only readResolve to replace the instance with a serial proxy and not writeReplace.
- D. Declare fields transient.
- E. Make the class abstract.

**Answer:** B,C

**NO.7** Given the code fragment:

```

var pool = Executors.newFixedThreadPool(5);
Future outcome = pool.submit() -> 1);

```

Which type of lambda expression is passed into submit()?

- A. java.util.function.Predicate
- B. java.util.function.Function
- C. java.lang.Runnable
- D. java.util.concurrent.Callable

**Answer:** D

Reference:

<https://www.codota.com/code/java/methods/java.util.concurrent.Executors/newFixedThreadPool>

**NO.8** Given:

```

public class Employee {
    private String name;
    private String locality;
    /* the constructor, getter and setter methods code goes here */
}

```

and:

```
8. List<Employee> roster = new ArrayList<>();
9. long empCount = roster.stream()
10. /* insert code here */
11. System.out.print(empCount);
```

Which code, when inserted on line 10, prints the number of unique localities from the roster list?

- A. `map(e -> e.getLocality())`  
`.count();`
- B. `.filter(Employee::getLocality)`  
`.distinct()`  
`.count();`
- C. `.map(e -> e.getLocality())`  
`.collect(Collectors.toSet())`  
`.count();`
- D. `.map(Employee::getLocality)`  
`.distinct()`  
`.count();`

**Answer:** B

Reference:

<https://developer.android.com/reference/android/location/Address>