Vendor: Oracle

Exam Code:1Z0-816

Exam Name: Java SE 11 Programmer II

Version: Demo

QUESTION 1

Given:

```
public class Tester {
   static class Person implements /* line 1 */ {
      private String name;
      Person(String name) { this.name = name; }
      /* line 2 */
   }
   public static void main(String[] args) {
      Person[] people = {new Person("Joe"),
                         new Person("Jane"),
                         new Person("John")};
      Arrays-sort(people);
      for(Person person: people) {
         System.out.println(person.name);
      }
   }
}
```

You want the code to produce this output:

John Joe Jane

Which code fragment should be inserted on line 1 and line 2 to produce the output?

A. Insert Comparator on line 1. Insert public int compare(Person p1, Person p2) { return p1.name.compare(p2.name); } on line 2.

B. Insert Comparator on line 1. Insert public int compareTo(Person person) { return person.name.compareTo(this.name); } on line 2.

C. Insert Comparable on line 1. Insert public int compare(Person p1, Person p2) { return p1.name.compare(p2.name); } on line 2.

D. Insert Comparator on line 1. Insert public int compare(Person person) { return person.name.compare(this.name); } on line 2.

Correct Answer: B

Reference: https://www.coursehero.com/file/p320ss6/Override-public-int-compareTo-Person-otherCompare-this-objects-name-to-others/

QUESTION 2

Given:

```
@Target(ElementType.METHOD)
@Retention(RetentionPolicy.RUNTIME)
public @interface AuthorInfo {
     String author() default "";
     String date();
     String[] comments() default {};
}
```

Which two are correct? (Choose two.)

A.
```
@AuthorInfo(date="1-1-2020", comments={ null })
public class Hello {
     public void func() {}
}
```

B.
```
public class Hello {
@AuthorInfo (date="1-1-2020. comments="Hello")
     public void func() {}
}
```

C.
```
public class Hello {
     @AuthorInfo
     public void func() {}
}
```

D.
```
@AuthorInfo(date="1-1-2020")
public class Hello {
     public void func() {}
}
```

E.
```
public class Hello {
  @AuthorInfo(date="1-1-2020", author="Gandhi", comments={ "world" })
  public void func () {}
}
```

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: CD

QUESTION 3

Given: Which annotation should be used to remove warnings from compilation?

```
public class Main {
   public static void main(String[] args) {
      List 1 = new ArrayList();
      l.add("hello");
      l.add("world");
      print(1);
   }
   private static void print(List<String>... args) {
        for (List<String> str : args) {
          System.out.println (str);
        }
   }
}
```

A. @SuppressWarnings on the main and print methods

B. @SuppressWarnings("unchecked") on main and @SafeVarargs on the print method

C. @SuppressWarnings("rawtypes") on main and @SafeVarargs on the print method

D. @SuppressWarnings("all") on the main and print methods

Correct Answer: B

```
13  @SuppressWarnings("unchecked")
14  public class Main {
15
16      public static void main(String[] args) {
17
18          List l = new ArrayList();
19          l.add("Hello");
20          l.add("world");
21          print(1);
22
23      }
24
25      private static void print(List<String>... args) {
26          for (List<String> str : args) {
27              System.out.println (str);
28
29          }
30      }
31      @SafeVarargs
32  }
```

QUESTION 4

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: B

Reference: https://books.google.com.pk/books?id=PmiO65T9hF0Candpg=PA385andlpg=PA385anddq=java +pattern+formats+eeee+d%2Bth+of%2B+MMMM+yyyyandsource=blandots=lJN_-AnWQjandsig=ACfU3U2RJf7iuK3t_SKARwLSaak9xxV09Aandhl=enandsa=Xandved=2ahUKEwi4m6LL3vLoAhVgT RUIHURpC38Q6AEwDHoECBQQAQ#v=onepageandq=java%20pattern%20formats%20eeee%20d%2Bth% 20of%2B%20MMMM% 20yyyyandf=false

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QUESTION 5

Given:

```
public static void main(String[] args) {
    final List<String> fruits =
       List.of("Orange", "Apple", "Lemmon", "Raspberry");
    final List<String> types =
       List.of("Juice", "Pie", "Ice", "Tart");
    final var stream =
       IntStream.range(0, Math.min(fruits.size(), types.size()))
           .mapToObj((i) -> fruits.get(i) + " " + types.get(i) );
    stream. forEach(System.out::println);
}
```

What is the result?

A. Orange Juice

B. The compilation fails.

C. Orange Juice Apple Pie Lemmon Ice Raspberry Tart

D. The program prints nothing.

Correct Answer: C

```java
public class Person {
    public static void main (String[] args) {
        final List<String> fruits =
        List.of("Orange", "Apple", "Lemmon", "raspberry");
        final List<String> types =
        List.of("Juice", "Pie", "Ice", "Tart");
        final var stream =
        IntStream.range(0, Math.min(fruits.size(), types.size()))
        .mapToObj ((i) -> fruits.get(i) + " " + types.get(i) );
        stream. forEach(Systen.out::println);
    }

}
```

Result

compiled and executed in 1.227 sec(s)

```
Orange Juice
Apple Pie
Lemmon Ice
raspberry Tart
```

QUESTION 6

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.lang.Runnable

B. java.util.function.Predicate

C. java.util.function.Function

D. java.util.concurrent.Callable

Correct Answer: D

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

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QUESTION 7

Given:

```
public class Main {
  public static void main(String[] args) {
    try (BufferedReader br = new BufferedReader(new InputStreamReader(System.in));) {
      String input = br.readLine();
      System.out.println ("Input String was: " + input);
    } catch (IOException e) {
      e.printStackTrace();
    }
  }
}
```

Which is true?

A. System.out is the standard output stream. The stream is open only when System.out is called.

B. System.in cannot reassign the other stream.

C. System.out is an instance of java.io.OutputStream by default.

D. System.in is the standard input stream. The stream is already open.

Correct Answer: D

Reference: https://www.geeksforgeeks.org/java-lang-system-class-java/

QUESTION 8

Given:

```
1.    public class Secret {
2.         String[] names;
3.         public Secret(String[] names) {
4.              this.names = names;
5.         }
6.         public String[] getNames() {
7.              return names;
8.         }
9.    }
```

Which three actions implement Java SE security guidelines? (Choose three.)

A. Change line 7 to return names.clone();.

B. Change line 4 to this.names = names.clone();.

C. Change the getNames() method name to get$Names().

D. Change line 6 to public synchronized String[] getNames() {.

E. Change line 2 to private final String[] names;.

F. Change line 3 to private Secret(String[] names) {.

G. Change line 2 to protected volatile String[] names;.

Correct Answer: EFG

QUESTION 9

var numbers = List.of(0,1,2,3,4,5,6,7,8,9);

You want to calculate the average of numbers.

Which two codes will accomplish this? (Choose two.)

A. double avg = numbers.stream().parallel().averagingDouble(a -> a);

B. double avg = numbers.parallelStream().mapToInt (m -> m).average().getAsDouble();

C. double avg = numbers.stream().mapToInt (i -> i).average().parallel();

D. double avg = numbers.stream().average().getAsDouble();

E. double avg = numbers.stream().collect(Collectors.averagingDouble(n -> n));

Correct Answer: BD

```
1
2  import java.io.*;
3  import java.util.*;
4  class Hello {
5  public static void main(String[] args) {
6
7      var numbers = List.of(0,1,2,3,4,5,6,7,8,9);
8    double avg = numbers.parallelStream().mapToInt (m -> m).average().getAsDouble();
9
10     }
11 }
```

QUESTION 10

Given:

```
public class Foo {
   private final ReentrantLock lock = new ReentrantLock();
   private State state;
   public void foo() throws Exception {
      try {
         lock.lock();
         state.mutate();
      }
      finally {
         lock.unlock();
      }
   }
}
```

What is required to make the Foo class thread safe?

A. No change is required.

B. Make the declaration of lock static.

C. Replace the lock constructor call with new ReentrantLock (true).

D. Move the declaration of lock inside the foo method.

Correct Answer: C

Reference: https://stackoverflow.com/questions/55134811/how-to-make-java-class-thread-safe

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QUESTION 11

Which three annotation uses are valid? (Choose three.)

A. Function func = (@NonNull x) -> x.toUpperCase();

B. var v = "Hello" + (@Interned) "World"

C. Function func = (var @NonNull x) -> x.toUpperCase();

D. Function func = (@NonNull var x) -> x.toUpperCase();

E. var myString = (@NonNull String) str;

F. var obj = new @Interned MyObject();

Correct Answer: ACF

QUESTION 12

Given: Which one is correct?

```
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.");
   }
}
```

A. An IllegalThreadStateException is thrown at run time.

B. Three threads are created.

C. The compilation fails.

D. Four threads are created.

Correct Answer: A