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Java SE 8 Programmer II

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QUESTION 1

Given:

```
public class Product {
    public double applyDiscount(double price) {
        assert (price > 0); // line n1
        return price * 0.50;
    }
    public static void main(String[] args) {
        Product p = new Product();
        double newPrice =
            p.applyDiscount(Double.parseDouble(args[0]));
        System.out.println("New Price: " + newPrice);
    }
}
```

and the command: java Product 0 What is the result?

A. An AssertionError is thrown.

B. A compilation error occurs at line n1.

C. New Price: 0.0

D. A NumberFormatException is thrown at run time.

Correct Answer: C

QUESTION 2

Given the code fragments:

class Employee {

Optional address;

Employee (Optional address) {

this.address = address;

}

public Optional getAddress() { return address; }

}

class Address {

String city = "New York";

public String getCity { return city: }

```
public String toString() {

return city;

}

}
```

and

```
Address address = new Address;

Optional addrs1 = Optional.ofNullable (address);

Employee e1 = new Employee (addrs1);

String eAddress = (addrs1.isPresent()) ? addrs1.get().getCity() : "City Not available";

System.out.println(eAddress);
```

What is the result?

A. New York

B. City Not available

C. null

D. A NoSuchElementException is thrown at run time.

Correct Answer: C

QUESTION 3

Which code fragment is required to load a JDBC 3.0 driver?

A. Connection con = Connection.getDriver ("jdbc:xyzdata://localhost:3306/EmployeeDB");

B. Class.forName("org.xyzdata.jdbc.NetworkDriver");

C. Connection con = DriverManager.getConnection ("jdbc:xyzdata://localhost:3306/EmployeeDB");

D. DriverManager.loadDriver ("org.xyzdata.jdbc.NetworkDriver");

Correct Answer: B

QUESTION 4

Given the code fragment:

```
try {
    Properties prop = new Properties();
    prop.put("user", userName);
    prop.put("password", passWord);
    Connection conn = DriverManager.getConnection(dbURL, prop);
    if(conn != null){
        System.out.print("Connection Established");
    }
} catch (Exception e) {
    System.out.print(e);
}
```

and the information:

The required database driver is configured in the classpath.

The appropriate database is accessible with the dbURL, username, and passWord exists.

What is the result?

A. A ClassNotFoundException is thrown at runtime.

B. The program prints nothing.

C. The program prints Connection Established.

D. A SQLException is thrown at runtime.

Correct Answer: C

QUESTION 5

Given the content of /resourses/Message.properties:

welcome1="Good day!"

and given the code fragment:

Properties prop = new Properties ();

FileInputStream fis = new FileInputStream ("/resources/Message.properties");

prop.load(fis);

System.out.println(prop.getProperty("welcome1"));

System.out.println(prop.getProperty("welcome2", "Test"));//line n1

System.out.println(prop.getProperty("welcome3"));

What is the result?

A. Good day! Test followed by an Exception stack trace

B. Good day! followed by an Exception stack trace

C. Good day! Test null

D. A compilation error occurs at line n1.

Correct Answer: C

QUESTION 6

Given the code fragment:

List list1 = Arrays.asList(10, 20); List list2 = Arrays.asList(15, 30); //line n1

Which code fragment, when inserted at line n1, prints 10 20 15 30?

A. Stream.of(list1, list2) .flatMap(list -> list.stream()) .forEach(s -> System.out.print(s + " "));

B. Stream.of(list1, list2) .flatMap(list -> list.intStream()) .forEach(s -> System.out.print(s + " "));

C. list1.stream() .flatMap(list2.stream().flatMap(e1 -> e1.stream()) .forEach(s -> System.out.println(s + " "));

D. Stream.of(list1, list2) .flatMapToInt(list -> list.stream()) .forEach(s -> System.out.print(s + " "));

Correct Answer: A

QUESTION 7

Given:

class UserException extends Exception { }

class AgeOutOfLimitException extends UserException { }

and the code fragment:

class App {

public void doRegister(String name, int age)

throws UserException, AgeOutOfLimitException {

if (name.length () 60) {

throw new AgeOutOfLimitException ();

} else {

System.out.println("User is registered.");

}

}

public static void main(String[ ] args) throws UserException {

App t = new App ();

A. doRegister("Mathew", 60); } } What is the result?

B. User is registered.

C. An AgeOutOfLimitException is thrown.

D. A UserException is thrown.

E. A compilation error occurs in the main method.

Correct Answer: C

QUESTION 8

Which two code blocks correctly initialize a Locale variable? (Choose two.)

A. Locale loc1 = "UK";

B. Locale loc2 = Locale.getInstance("ru");

C. Locale loc3 = Locale.getLocaleFactory("RU");

D. Locale loc4 = Locale.UK;

E. Locale loc5 = new Locale ("ru", "RU");

Correct Answer: DE

QUESTION 9

Given the code fragment:

```
Stream<List<String>> strs = Stream.of(
        Arrays.asList("text1", "text2"),
        Arrays.asList("text2", "text3"));
Stream<String> bs2 = strs
        .filter(b -> b.contains("text1"))
        .flatMap(rs -> rs.stream());
bs2.forEach(b -> System.out.print(b));
```

What is the result?

A. text1text2

B. text1text2text2text3

C. text1

D. [text1, text2]

Correct Answer: A

QUESTION 10

Given the code fragments:

class TechName {

String techName;

TechName (String techName) {

this.techName=techName;

}

}

and

List tech = Arrays.asList (

new TechName("Java-"),

new TechName("Oracle DB-"),

new TechName("J2EE-")

);

Stream stre = tech.stream();

//line n1

Which should be inserted at line n1 to print Java-Oracle DB-J2EE-?

A. stre.forEach(System.out::print);

B. stre.map(a-> a.techName).forEach(System.out::print);

C. stre.map(a-> a).forEachOrdered(System.out::print);

D. stre.forEachOrdered(System.out::print);

Correct Answer: B

QUESTION 11

Given the definition of the Vehicle class:

```
class Vehicle    {
    String name;
        void setName (String name)    {
            this.name = name;
    }
    String getName()    {
        return name;
    }
}
```

Which action encapsulates the Vehicle class?

A. Make the Vehicle class private.

B. Make the name variable public.

C. Make the getName() and setName() method public.

D. Make the name variable private.

E. Make the getName() and setName() method private.

Correct Answer: B

QUESTION 12

Given the code fragment:

List nL = Arrays.asList("Jim", "John", "Jeff");

Function funVal = s -> "Hello : ".contact(s);

nL.Stream()

.map(funVal)

.peek(System.out::print);

What is the result?

A. Hello : Jim Hello : John Hello : Jeff

B. Jim John Jeff

C. The program prints nothing.

D. A compilation error occurs.

Correct Answer: C

QUESTION 13

Given:

Item table

?ID, INTEGER: PK ?DESCRIP, VARCHAR(100) ?PRICE, REAL ?QUANTIT