Vendor: Oracle

Exam Code: 1Z0-809

Exam Name: Java SE 8 Programmer II

QUESTION 1
Given the structure of the STUDENT table:

Student (id INTEGER, name VARCHAR)

Given:

```
public class Test {

static Connection newConnection =null;

public static Connection get DBConnection () throws SQLException {

try (Connection con = DriveManager.getConnection(URL, username, password)) {

newConnection = con;

}

return newConnection;

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

get DBConnection ();

Statement st = newConnection.createStatement();

st.executeUpdate("INSERT INTO student VALUES (102, `Kelvin')");

}

}
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the URL, userName, and passWord exists.

The SQL query is valid.

What is the result?

A. The program executes successfully and the STUDENT table is updated with one record.
B. The program executes successfully and the STUDENT table is NOT updated with any record.
C. A SQLException is thrown as runtime.
D. A NullPointerException is thrown as runtime.

Correct Answer: D

QUESTION 2
Given the code fragments:

```
class Employee {

Optional<Address> address;

Employee (Optional<Address> address) {

this.address = address;
```

```
}
public Optional<Address> getAddress() { return address; }

}

class Address {

String city = "New York";

public String getCity { return city: }

public String toString() {

return city;

}

}
```

and

```
Address address = null;

Optional<Address> addrs1 = Optional.ofNullable (address);

Employee e1 = new Employee (addrs1);

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

available";
```

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
Given:

```
class ImageScanner implements AutoCloseable {

public void close () throws Exception {

System.out.print ("Scanner closed.");

}

public void scanImage () throws Exception {

System.out.print ("Scan.");

throw new Exception("Unable to scan.");

}

}

class ImagePrinter implements AutoCloseable {
```

```
public void close () throws Exception {

System.out.print ("Printer closed.");

}

public void printImage () {System.out.print("Print."); }

}
```

and this code fragment:

```
try (ImageScanner ir = new ImageScanner();

ImagePrinter iw = new ImagePrinter()) {

ir.scanImage();

iw.printImage();

} catch (Exception e) {

System.out.print(e.getMessage());

}
```

What is the result?

A. Scan.Printer closed. Scanner closed. Unable to scan.
B. Scan.Scanner closed. Unable to scan.
C. Scan. Unable to scan.
D. Scan. Unable to scan. Printer closed.

Correct Answer: B

QUESTION 4
Given:

Item table

- ID, INTEGER: PK
- DESCRIP, VARCHAR(100)
- PRICE, REAL
- QUANTIT<; INTEGER

And given the code fragment:

```
9. try {

10.Connection conn = DriveManager.getConnection(dbURL, username, password);

11. String query = "Select * FROM Item WHERE ID = 110";

12. Statement stmt = conn.createStatement();

13. ResultSet rs = stmt.executeQuery(query);

14.while(rs.next()) {

15.System.out.println("ID:" + rs.getInt("Id"));
```

```
16.System.out.println("Description:" + rs.getString("Descrip"));

17.System.out.println("Price:" + rs.getDouble("Price"));

18. System.out.println(Quantity:" + rs.getInt("Quantity"));

19.}

20. } catch (SQLException se) {
21. System.out.println("Error");

22. }
```

Assume that:

The required database driver is configured in the classpath.

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

The SQL query is valid.

What is the result?

A. An exception is thrown at runtime.
B. Compilation fails.
C. The code prints Error.
D. The code prints information about Item 110.

Correct Answer: C

QUESTION 5
Given:

```
class Bird {

public void fly () { System.out.print("Can fly"); }

}

class Penguin extends Bird {

public void fly () { System.out.print("Cannot fly"); }

}
```

and the code fragment:

```
class Birdie {

public static void main (String [ ] args) {
fly( ( ) -> new Bird ( ));

fly (Penguin : : new);

}

/* line n1 */

}
```

Which code fragment, when inserted at line n1, enables the Birdie class to compile?

A. static void fly (Consumer<Bird> bird) {
bird :: fly ();
}
B. static void fly (Consumer<? extends Bird> bird) { bird.accept( ) fly ();
}
C. static void fly (Supplier<Bird> bird) {
bird.get( ) fly ();
}
D. static void fly (Supplier<? extends Bird> bird) { LOST

Correct Answer: C

QUESTION 6
Given the code fragment:

```
public void recDelete (String dirName) throws IOException {

File [ ] listOfFiles = new File (dirName) .listFiles();

if (listOfFiles ! = null && listOfFiles.length >0) {

for (File aFile : listOfFiles) {

if (aFile.isDirectory ()) {

recDelete (aFile.getAbsolutePath ());
} else {

if (aFile.getName ().endsWith (".class"))

aFile.delete ();

}

}

}

}
```

Assume that Projects contains subdirectories that contain .class files and is passed as an argument to the recDelete () method when it is invoked.

What is the result?

A. The method deletes all the .class files in the Projects directory and its subdirectories.
B. The method deletes the .class files of the Projects directory only.
C. The method executes and does not make any changes to the Projects directory.
D. The method throws an IOException.

Correct Answer: B

QUESTION 7
Which three statements are benefits of encapsulation?

A. Allows a class implementation to change without changing t he clients
B. Protects confidential data from leaking out of the objects
C. Prevents code from causing exceptions
D. Enables the class implementation to protect its invariants
E. Permits classes to be combined into the same package

F. Enables multiple instances of the same class to be created safely

Correct Answer: ABD

QUESTION 8
Given the code format:

```
class DBConfiguration {
    String user;
    String password;
}

And:

4. public class DBHandler {
5.     DBConfiguration configureDB(String uname, String password) {
6.         // insert code here
7.     }
8.     public static void main(String[] args) {
9.         DBHandler r = new DBHandler();
10.        DBConfiguration dbConf = r.configureDB("manager", "manager");
11.    }
12. }
```

Which code fragment must be inserted at line 6 to enable the code to compile?

A. DBConfiguration f;
return f;
B. Return DBConfiguration;
C. Return new DBConfiguration;
D. Retutn 0;

Correct Answer: B

QUESTION 9
Given the code fragment:

```
ZonedDateTime depart = ZonedDateTime.of(2015, 1, 15, 3, 0, 0, 0, ZoneID.of("UTC-7"));

ZonedDateTime arrive = ZonedDateTime.of(2015, 1, 15, 9, 0, 0, 0, ZoneID.of("UTC-5"));

long hrs = ChronoUnit.HOURS.between(depart, arrive); //line n1

System.out.println("Travel time is" + hrs + "hours");
```

What is the result?

A. Travel time is 4 hours
B. Travel time is 6 hours
C. Travel time is 8 hours
D. An exception is thrown at line n1.

Correct Answer: D

QUESTION 10
Given:

```
public class product {
```

```
int id; int price;

public Product (int id, int price) {

this.id = id;

this.price = price;

}

public String toString() { return id + ":" + price; }

}
```

and the code fragment:

```
List<Product> products = Arrays.asList(new Product(1, 10),

new Product (2, 30),

new Product (2, 30));

Product p = products.stream().reduce(new Product (4, 0), (p1, p2) -> {

p1.price+=p2.price;

return new Product (p1.id, p1.price);});

products.add(p);

products.stream().parallel()

.reduce((p1, p2) - > p1.price > p2.price ? p1 : p2)

.ifPresent(System.out: :println);
```

What is the result?

A. 2 : 30
B. 4 : 0
C. 4 : 60
D. 4 : 60
   2 : 30
   3 : 20
   1 : 10
E. The program prints nothing.

Correct Answer: D

QUESTION 11
Given:

```
public enum USCurrency {

PENNY (1),

NICKLE(5),

DIME (10),

QUARTER(25);
```

```
private int value;

public USCurrency(int value) {

this.value = value;

}

public int getValue() {return value;}

}

public class Coin {

public static void main (String[] args) {

USCurrency usCoin =new USCurrency.DIME;

System.out.println(usCoin.getValue()):
}

}
```

Which two modifications enable the given code to compile?

A. Nest the USCurrency enumeration declaration within the Coin class.
B. Make the USCurrency enumeration constructor private.
C. Remove the new keyword from the instantion of usCoin.
D. Make the getter method of value as a static method.
E. Add the final keyword in the declaration of value.

Correct Answer: AE

QUESTION 12
Given:

```
public class ScopeTest {

int j, int k;

public static void main(String[] args) {

ew ScopeTest().doStuff(); }

void doStuff() {

nt x = 5;

oStuff2();

System.out.println("x");

}

void doStuff2() {

nt y = 7;

ystem.out.println("y");

or (int z = 0; z < 5; z++) {
```

```
ystem.out.println("z");
ystem.out.println("y");

}
```

Which two items are fields?

A. j
B. k
C. x
D. y
E. z

Correct Answer: AB

QUESTION 13
You have been asked to create a ResourceBundle which uses a properties file to localize an application.

Which code example specifies valid keys of menu1 and menu2 with values of File Menu and View Menu?

A. <key name = `menu1">File Menu</key>
<key name = `menu2">View Menu</key>
B. <key>menu1</key><value>File Menu</value>
<key>menu2</key><value>View Menu</value>
C. menu1, File Menu, menu2, View Menu
D. menu1 = File Menu
menu2 = View Menu

Correct Answer: B

QUESTION 14
Which two items can legally be contained within a java class declaration?

A. An import statement
B. A field declaration
C. A package declaration
D. A method declaration

Correct Answer: BD

QUESTION 15
Which statement is true about java.time.Duration?

A. It tracks time zones.
B. It preserves daylight saving time.
C. It defines time-based values.
D. It defines date-based values.

Correct Answer: C