# 1z0-809.exam.52q

Number: 1z0-809 Passing Score: 800 Time Limit: 120 min



1z0-809

Java SE 8 Programmer II

#### Exam A

#### **QUESTION 1**

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?



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```
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 Section: (none) Explanation

# Explanation/Reference:

## **QUESTION 2**

Given:

```
1. abstract class Shape {
      Shape () { System.out.println ("Shape");
2.
      protected void area ( ) { System.out.println ("Shape");
3.
4. }
5.
6. class Square extends Shape {
7.
      int side;
       Square int side {
8.
         /* insert code here */
9.
            this.side = side;
10.
11.
       public void area ( ) { System.out.println ("Square");
12.
13.
14. class Rectangle extends Square {
15.
       int len, br;
16.
       Rectangle (int x, int y) {
            /* insert code here */
17.
           len = x, br = y;
18.
19.
20. void area ( ) { System.out.println ("Rectangle");
21. }
```

Which two modifications enable the code to compile?

A. At line 1, remove abstract
B. At line 9, insert super ();
C. At line 12, remove public
D. At line 17, insert super (x);
E. At line 17, insert super (); super.side = x;
F. At line 20, use public void area () {

```
Correct Answer: DF
Section: (none)
Explanation
```

# **Explanation/Reference:**

## **QUESTION 3**

```
Given:
```

```
public class Foo<K, V> {
    private K key;
    private V value;

public Foo (K key, V value) (this.key = key; this value = value;)

public static <T> Foo<T, T> twice (T value) (return new Foo<T, T> (value, value);)

public K getKey () (return key;)
public V getValue () (return value;)
}

Which option fails?

A. Foo<String, Integer> mark = new Foo<String, Integer> ("Steve", 100););

B. Foo<String, String> pair = Foo.<String>twice ("Hello World!");

C. Foo percentage = new Foo(97, 32);

D. Foo<String, String> grade = new Foo <> ("John", "A");
```

Correct Answer: C Section: (none) Explanation

# Explanation/Reference:

#### **QUESTION 4**

Given the code fragment:

```
Stream<List<String>> iStr= Stream.of (
```

```
Arrays.asList ("1", "John"),
   Arrays.asList ("2", null)0;
Stream<<String> nInSt = iStr.flatMapToInt ((x) -> x.stream ());
nInSt.forEach (System.out :: print);
```

#### What is the result?

- A. 1John2null
- **B.** 12
- C. A NullPointerException is thrown at run time.
- D. A compilation error occurs.

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 5**

Given the code fragment:

```
Path file = Paths.get ("courses.txt");
// line n1
```

Assume the courses.txt is accessible.

Which code fragment can be inserted at line n1 to enable the code to print the content of the courses.txt file?

```
A. List<String> fc = Files.list(file);
  fc.stream().forEach (s - > System.out.println(s));
B. Stream<String> fc = Files.readAllLines (file);
  fc.forEach (s - > System.out.println(s));
C. List<String> fc = readAllLines(file);
  fc.stream().forEach (s - > System.out.println(s));
D. Stream<String> fc = Files.lines (file);
  fc.forEach (s - > System.out.println(s));
```

Correct Answer: D Section: (none) Explanation

# Explanation/Reference:

#### **QUESTION 6**

Given the code fragments:

```
4. void doStuff() throws ArithmeticException, NumberFormatException, Exception
5.    if (Math.random() >-1 throw new Exception ("Try again");
6. }

and

24. try {
25.    doStuff ():
26. } catch (ArithmeticException | NumberFormatException | Exception e) {
27.    System.out.println (e.getMessage()); }
28. catch (Exception e) {
29.    System.out.println (e.getMessage()); }
30. }
```

Which modification enables the code to print Try again?

- A. Comment the lines 28, 29 and 30.
- B. Replace line 26 with:

```
} catch (Exception | ArithmeticException | NumberFormatException e) {
```

C. Replace line 26 with:

catch (ArithmeticException | NumberFormatException e) {

D. Replace line 27 with:

throw e;

Correct Answer: C Section: (none) Explanation

# Explanation/Reference:

#### **QUESTION 7**

Given the definition of the Country class:

```
public class country {
    public enum Continent {ASIA, EUROPE}
    String name;
    Continent region;
    public Country (String na, Continent reg) {
        name = na, region = reg;
        public String getName () {return name;}
        public Continent getRegion () {return region;}
and the code fragment:
List<Country> couList = Arrays.asList (
    new Country ("Japan", Country.Continent.ASIA),
    new Country ("Italy", Country.Continent.EUROPE),
    new Country ("Germany", Country.Continent.EUROPE));
Map<Country.Continent, List<String>> regionNames = couList.stream ()
    .collect(Collectors.groupingBy (Country ::getRegion,
    Collectors.mapping(Country::getName, Collectors.toList())));
System.out.println(regionNames);
A. {EUROPE = [Italy, Germany], ASIA = [Japan]}
B. {ASIA = [Japan], EUROPE = [Italy, Germany]}
C. {EUROPE = [Germany, Italy], ASIA = [Japan]}
D. {EUROPE = [Germany], EUROPE = [Italy], ASIA = [Japan]}
Correct Answer: B
Section: (none)
Explanation
Explanation/Reference:
QUESTION 8
Given the code fragment:
Map<Integer, String> books = new TreeMap<>();
books.put (1007, "A");
books.put (1002, "C");
books.put (1001, "B");
books.put (1003, "B");
```

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

#### What is the result?



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```
A. {1007 = A, 1002 = C, 1001 = B, 1003 = B}
B. {1001 = B, 1002 = C, 1003 = B, 1007 = A}
C. {1002 = C, 1003 = B, 1007 = A}
D. {1007 = A, 1001 = B, 1003 = B, 1002 = C}
```

Correct Answer: B Section: (none) Explanation

# Explanation/Reference:

Reference: TreeMap inherits SortedMap and automatically sorts the element's key

## **QUESTION 9**

Given:

```
class Book {
   int id;
   String name;
   public Book (int id, String name) {
      this.id = id;
      this.name = name;
   }
   public boolean equals (Object obj) {
      boolean output = false;
      Book b = (Book) obj;
      if (this.name.equals(b name))}
        output = true;
    }
    return output;
}
```

```
}
```

# and the code fragment:

#### Which statement is true?

- A. The program prints true.
- B. The program prints false.
- C. A compilation error occurs. To ensure successful compilation, replace line n1 with: boolean equals (Book obj) {
- D. A compilation error occurs. To ensure successful compilation, replace line n2 with: System.out.println (b1.equals((Object) b2));

Correct Answer: A Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 10**

Given the code fragment:

Assume that the Pics directory does NOT exist.

- A. An exception is thrown at run time.
- B. 2:MyPic.jpeg: MyPic.jpegC. 1:Pics:/Pics/ MyPic.jpeg
- D. 2:Pics: MyPic.jpeg

Correct Answer: B Section: (none) Explanation

## Explanation/Reference:

## **QUESTION 11**

Given the code fragments:

```
class MyThread implements Runnable {
    private static AtomicInteger count = new AtomicInteger (0);
    public void run () {
        int x = count.incrementAndGet();
        System.out.print (x+" ");
    }
}

and

Thread thread1 = new Thread(new MyThread());
Thread thread2 = new Thread(new MyThread());
Thread thread3 = new Thread(new MyThread());
Thread [] ta = {thread1, thread2, thread3};
for (int x = 0; x < 3; x++) {
        ta[x].start();
}</pre>
```

Which statement is true?

- A. The program prints 1 2 3 and the order is unpredictable.
- B. The program prints 1 2 3.
- C. The program prints 1 1 1.
- D. A compilation error occurs.

Correct Answer: A Section: (none) Explanation

**Explanation/Reference:** 

## **QUESTION 12**

Given the code fragment:

```
Path source = Paths.get ("/data/december/log.txt");
Path destination = Paths.get("/data");
Files.copy (source, destination);
```

and assuming that the file /data/december/log.txt is accessible and contains:

```
10-Dec-2014 - Executed successfully
```

What is the result?

- A. A file with the name log.txt is created in the /data directory and the content of the /data/december/log.txt file is copied to it.
- B. The program executes successfully and does NOT change the file system.
- C. A FileNotFoundException is thrown at run time.
- D. A FileAlreadyExistsException is thrown at run time.

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 13**

Given:

```
class Student {
   String course, name, city;
   public Student (String name, String course, String city) {
      this.course = course; this.name = name; this.city = city;
   }
   public String toString() {
      return course + ":" + name + ":" + city;
   }
}
```

and the code fragment:

```
List<Student> stds = Arrays.asList(
    new Student ("Jessy", "Java ME", "Chicago"),
new Student ("Helen", "Java EE", "Houston"),
    new Student ("Mark", "Java ME", "Chicago"));
stds.stream()
    .collect(Collectors.groupingBy(Student::getCourse))
    .forEach(src, res) -> System.out.println(scr));
What is the result?
A. [Java EE: Helen:Houston]
   [Java ME: Jessy:Chicago, Java ME: Mark:Chicago]
B. Java EE
   Java ME
C. [Java ME: Jessy:Chicago, Java ME: Mark:Chicago]
   [Java EE: Helen:Houston]
D. A compilation error occurs.
Correct Answer: B
Section: (none)
Explanation
Explanation/Reference:
QUESTION 14
Given the code fragments:
interface CourseFilter extends Predicate<String>
    public default boolean test (String str)
        return str.equals ("Java");
and
List<String> strs = Arrays.asList("Java", "Java EE", "Java ME");
Predicate <String> cf1 = s - > s.length() > 3;
Predicate cf2 = new CourseFilter() {
                                                  //line n1
    public boolean test (String s) {
        return s.contains ("Java");
```

```
};
long c = strs.stream()
    .filter(cf1)
    .filter(cf2
                                          //line n2
.count();
System.out.println(c);
What is the result?
A. 2
B. 3
C. A compilation error occurs at line n1.
D. A compilation error occurs at line n2.
Correct Answer: B
Section: (none)
Explanation
Explanation/Reference:
QUESTION 15
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: BC Section: (none) Explanation

# **Explanation/Reference:**

#### **QUESTION 16**

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.
R Scan. Scanner closed. Unable to scan.
C. Scan. Unable to scan.
D. Scan. Unable to scan. Printer closed.
Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:
QUESTION 17
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: C Section: (none) Explanation

## Explanation/Reference:

#### **QUESTION 18**

Given the code fragment:



- A. All files and directories under the home directory are listed along with their attributes.
- B. A compilation error occurs at line n1.
- C. The files in the home directory are listed along with their attributes.
- D. A compilation error occurs at line n2.

# Correct Answer: A Section: (none) Explanation

# Explanation/Reference:

## **QUESTION 19**

```
Given:
```

```
class Vehicle {
   int vno;
   String name;

public Vehicle (int vno, String name) {
     this.vno = vno,;
     this.name = name;
   }
   public String toString () {
      return vno + ":" + name;
   }
}
```

# and this code fragment:

```
Set<Vehicle> vehicles = new TreeSet <> ();
vehicles.add(new Vehicle (10123, "Ford"));
vehicles.add(new Vehicle (10124, "BMW"));
System.out.println(vehicles);
```

- **A.** 10123 Ford 10124 BMW
- **B.** 10124 BMW

10123 Ford

- C. A compilation error occurs.
- D. A ClassCastException is thrown at run time.

Correct Answer: D Section: (none) Explanation

# Explanation/Reference:

## **QUESTION 20**

Given that course.txt is accessible and contains:

```
Course : : Java
and given the code fragment:

public static void main (String[] args) {
   int i;
   char c;
   try (FileInputStream fis = new FileInputStream ("course.txt");
        InputStreamReader isr = new InputStreamReader(fis);) {
        while (isr.ready()) { //line n1
            isr.skip(2);
            i = isr.read ();
            c = (char) i;
            System.out.print(c);
        }
   } catch (Exception e) {
        e.printStackTrace();
   }
}
```

- **A.** ur :: va
- B. ueJa
- C. The program prints nothing.
- D. A compilation error occurs at line n1.

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 21**

Given:

## What is the result?

- **A.** Java 100
- B. java.lang.string@<hashcode>java.lang.Integer@<hashcode>
- C. A compilation error occurs. To rectify it, replace  ${\tt line}\ {\tt n1}$  with:

Test<Integer> type1 = new Test<>();

D. A compilation error occurs. To rectify it, replace line n2 with:

type1.set (Integer(100));

Correct Answer: A Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 22**

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 public.
- B. Make the name variable public.
- C. Make the setName method public.
- D. Make the name variable private.
- E. Make the setName method private.
- F. Make the getName method private.

Correct Answer: D Section: (none) Explanation

# Explanation/Reference:

#### **QUESTION 23**

Given the code fragment:

Which code fragment, when inserted at line n1, enables the code to print the count of string elements whose length is greater than three?

```
A. listVal.stream().filter(x -> x.length()>3).count()
B. listVal.stream().map(x \rightarrow x.length()>3).count()
C. listVal.stream().peek(x -> x.length()>3).count().get()
D. listVal.stream().filter(x \rightarrow x.length()>3).mapToInt(x \rightarrow x).count()
Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:
QUESTION 24
Given the code fragments:
class Caller implements Callable<String>
    String str;
    public Caller (String s) {this.str=s;}
    public String call()throws Exception { return str.concat ("Caller");}
class Runner implements Runnable {
String str;
    public Runner (String s) {this.str=s;}
    public void run () { System.out.println (str.concat ("Runner"));}
and
public static void main (String[] args) InterruptedException, ExecutionException {
    ExecutorService es = Executors.newFixedThreadPool(2);
    Future f1 = es.submit (new Caller ("Call"));
    Future f2 = es.submit (new Runner ("Run"));
    String str1 = (String) f1.get();
    String str2 = (String) f2.get();
                                              //line n1
    System.out.println(str1+ ":" + str2);
What is the result?
A. The program prints:
```

Run Runner

Call Caller : null

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And the program does not terminate.

B. The program terminates after printing:

```
Run Runner
Call Caller : Run
```

- C. A compilation error occurs at line n1.
- D. An Execution is thrown at run time.

Correct Answer: A Section: (none) Explanation

# **Explanation/Reference:**

#### **QUESTION 25**

Given the code fragment:

```
List<String> str = Arrays.asList ("my", "pen", "is", "your', "pen");
Predicate<String> test = s -> {
   int i = 0;
   boolean result = s.contains ("pen");
   System.out.print(i++) + ":");
   return result;
};
str.stream()
   .filter(test)
   .findFirst()
   .ifPresent(System.out ::print);
```

#### What is the result?

```
A. 0 : 0 : pen
B. 0 : 1 : pen
C. 0 : 0 : 0 : 0 : 0 : pen
D. 0 : 1 : 2 : 3 : 4 :
```

E. A compilation error occurs.

Correct Answer: A Section: (none) Explanation

# Explanation/Reference:

#### **QUESTION 26**

Given the code fragment:

Correct Answer: A Section: (none) Explanation

D. 100, Robin, HR

101, Peter, HR

# Explanation/Reference:

200, Mary, AdminServices

200, Mary, AdminServices

## **QUESTION 27**

Given:

```
interface Rideable {Car getCar (String name); }
class Car {
   private String name;
   public Car (String name) {
```

```
this.name = name;
}
```

Which code fragment creates an instance of Car?

```
A. Car auto = Car ("MyCar"): : new;
B. Car auto = Car : new;
   Car vehicle = auto : : getCar("MyCar");
C. Rideable rider = Car : new;
   Car vehicle = rider.getCar("MyCar");
D. Car vehicle = Rideable : : new : : getCar("MyCar");
```

Correct Answer: C Section: (none) Explanation

## Explanation/Reference:

#### **QUESTION 28**

Which statement is true about the DriverManager class?

- A. It returns an instance of Connection.
- B. it executes SQL statements against the database.
- C. It only queries metadata of the database.
- D. it is written by different vendors for their specific database.

Correct Answer: A Section: (none) Explanation

# Explanation/Reference:

Explanation:

The DriverManager returns an instance of Doctrine\DBAL\Connection which is a wrapper around the underlying driver connection (which is often a PDO instance). Reference: <a href="http://doctrine-dbal.readthedocs.org/en/latest/reference/configuration.html">http://doctrine-dbal.readthedocs.org/en/latest/reference/configuration.html</a>

#### **QUESTION 29**

Given the code fragment:

Which code fragment must be inserted at line n1 to enable the code to print the maximum number in the nums list?

```
A. nums.stream().max(Comparator.comparing(a -> a)).get()
B. nums.stream().max(Integer : : max).get()
C. nums.stream().max()
D. nums.stream().map(a -> a).max()
```

Correct Answer: A Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 30**

Which two statements are true about localizing an application?

- A. Support for new regional languages does not require recompilation of the code.
- B. Textual elements (messages and GUI labels) are hard-coded in the code.
- C. Language and region-specific programs are created using localized data.
- D. Resource bundle files include data and currency information.
- E. Language codes use lowercase letters and region codes use uppercase letters.

Correct Answer: AE Section: (none) Explanation

# **Explanation/Reference:**

Reference: http://docs.oracle.com/javase/7/docs/technotes/guides/intl/

## **QUESTION 31**

Which statement is true about java.util.stream.Stream?

A. A stream cannot be consumed more than once.

- B. The execution mode of streams can be changed during processing.
- C. Streams are intended to modify the source data.
- D. A parallel stream is always faster than an equivalent sequential stream.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

#### **QUESTION 32**

Given:

Which two modifications enable the code to print Open Close?

```
public void close () throws IOException {
         System.out.print("Close");
}
```

Correct Answer: AE Section: (none) Explanation

## Explanation/Reference:

#### **QUESTION 33**

You want to create a singleton class by using the Singleton design pattern. Which two statements enforce the singleton nature of the design?

- A. Make the class static.
- B. Make the constructor private.
- C. Override equals() and hashCode() methods of the java.lang.Object class.
- D. Use a static reference to point to the single instance.



E. Implement the Serializable interface.

Correct Answer: BD Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 34**

Given the code fragment:

```
9. Connection conn = DriveManager.getConnection(dbURL, userName, passWord);
10. String query = "SELECT id FROM Employee";
```

```
11. try (Statement stmt = conn.createStatement())
12.
        ResultSet rs = stmt.executeOuerv(query);
13.
       stmt.executeQuery("SELECT id FROM Customer");
14.
       while (rs.next()) {
15
            //process the results
           System.out.println("Employee ID: "+ rs.getInt("id"));
16.
17.
18. } catch (Exception e) {
19.
        System.out.println ("Error");
20. }
```

## Assume that:

The required database driver is configured in the classpath.

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

The Employee and Customer tables are available and each table has id column with a few records and the SQL queries are valid. What is the result of compiling and executing this code fragment?

- A. The program prints employee IDs.
- B. The program prints customer IDs.
- C. The program prints Error.
- D. compilation fails on line 13.

Correct Answer: C Section: (none) Explanation

# Explanation/Reference:

#### **QUESTION 35**

Given:

```
public class Customer {
    private String fName;
    private String lName;
    private static int count;
    public customer (String first, String last) {fName = first, lName = last;
    ++count;}
    static { count = 0; }
    public static int getCount() {return count; }
}
```

```
public class App
    public static void main (String [] args)
        Customer c1 = new Customer("Larry", "Smith");
        Customer c2 = new Customer ("Pedro", "Gonzales");
        Customer c3 = new Customer("Penny", "Jones");
        Customer c4 = new Customer("Lars", "Svenson");
        c4 = null;
        c3 = c2;
        System.out.println (Customer.getCount());
What is the result?
A. 0
B. 2
C. 3
D. 4
E. 5
Correct Answer: D
Section: (none)
Explanation
Explanation/Reference:
QUESTION 36
Given:
Item table
• ID, INTEGER: PK
• DESCRIP, VARCHAR (100)
• PRICE, REAL
• QUANTITY< INTEGER
And given the code fragment:
9. try {
10.
       Connection conn = DriveManager.getConnection(dbURL, username, password);
        String query = "Select * FROM Item WHERE ID = 110";
11.
```

```
12.
       Statement stmt = conn.createStatement();
13.
       ResultSet rs = stmt.executeOuerv(query);
14.
      while(rs.next()) {
15.
           System.out.println("ID:
                                         " + rs.getInt("Id"));
          System.out.println("Description: " + rs.getString("Descrip"));
16
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: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 37**

Given:

```
class Worker extends Thread {
   CyclicBarrier cb;
   public Worker(CyclicBarrier cb) { this.cb = cb; }
   public void run () {
       try {
          cb.await();
          System.out.println("Worker...");
     } catch (Exception ex) { }
```

```
class Master implements Runnable {    //line n1
    public void run ()
        System.out.println("Master...");
and the code fragment:
Master master = new Master();
//line n2
Worker worker = new Worker(cb);
worker.start();
You have been asked to ensure that the run methods of both the Worker and Master classes are executed.
Which modification meets the requirement?
A. At line n2, insert CyclicBarrier cb = new CyclicBarrier(2, master);
B. Replace line n1 with class Master extends Thread {
C. At line n2, insert CyclicBarrier cb = new CyclicBarrier(1, master);
D. At line n2, insert CyclicBarrier cb = new CyclicBarrier(master);
Correct Answer: C
Section: (none)
Explanation
Explanation/Reference:
QUESTION 38
Given:
public interface Moveable<Integer>
    public default void walk (Integer distance) {System.out.println("Walking");)
    public void run(Integer distance);
Which statement is true?
```

A. Moveable can be used as below:

```
Moveable<Integer> animal = n - > System.out.println("Running" + n);
   animal.run(100);
   animal.walk(20);
B. Moveable can be used as below:
   Moveable<Integer> animal = n - > n + 10;
   animal.run(100);
   animal.walk(20);
C. Moveable can be used as below:
   Moveable animal = (Integer n) -> System.out.println(n);
   animal.run(100);
  Moveable.walk(20);
D. Movable cannot be used in a lambda expression.
Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:
QUESTION 39
Which two code blocks correctly initialize a Locale variable?
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
Section: (none)
Explanation
Explanation/Reference:
```

class FuelNotAvailException extends Exception { }

**QUESTION 40** 

Given:

```
class Vehicle {
    void ride() throws FuelNotAvailException {
                                                     //line n1
        System.out.println("Happy Journey!");
class SolarVehicle extends Vehicle
    public void ride () throws Exception {
                                                    //line n2
        super ride ();
and the code fragment:
public static void main (String[] args) throws FuelNotAvailException, Exception {
    Vehicle v = new SolarVehicle ();
    v.ride();
Which modification enables the code fragment to print Happy Journey!?
A. Replace line n1 with public void ride() throws FuelNotAvailException
B. Replace line n1 with protected void ride() throws Exception {
C. Replace line n2 with void ride() throws Exception
D. Replace line n2 with private void ride() throws FuelNotAvailException {
Correct Answer: B
Section: (none)
Explanation
Explanation/Reference:
QUESTION 41
Given the definition of the Emp class:
public class Emp
    private String eName;
    private Integer eAge;
    Emp(String eN, Integer eA)
        this.eName = eN;
        this.eAge = eA;
```

```
public Integer getEAge () {return eAge;}
public String getEName () {return eName;}
}
```

# and code fragment:

## What is the result?

- A. Sam John Jim
- R John Jim
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Correct Answer: B Section: (none) Explanation

# Explanation/Reference:

#### **QUESTION 42**

For which three objects must a vendor provide implementations in its JDBC driver?

- A. Time
- B. Date
- C. Statement
- D. ResultSet



E. Connection

F. SQLException

G. DriverManager

Correct Answer: CDE

Section: (none) Explanation

# Explanation/Reference:

Explanation:

Database vendors support JDBC through the JDBC driver interface or through the ODBC connection. Each driver must provide implementations of java.sql.Connection, java.sql.Statement, java.sql.PreparedStatement, java.sql.CallableStatement, and java.sql.Re sultSet. They must also implement the java.sql.Driver interface for use by the generic java.sql.DriverManager interface.

## **QUESTION 43**

Given the code fragment:

```
LocalDate valentinesDay =LocalDate.of(2015, Month.FEBRUARY, 14);

LocalDate nextYear = valentinesDay.plusYears(1);

nextYear.plusDays(15); //line n1

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

#### What is the result?

A. 2016-02-14

B. A DateTimeException is thrown.

C. 2016-02-29

D. A compilation error occurs at line n1.

Correct Answer: A Section: (none) Explanation

## **Explanation/Reference:**

#### **QUESTION 44**

Given the code fragment:

```
BiFunction<Integer, Double, Integer> val = (t1, t2) \rightarrow t1 + t2; //line n1 System.out.println(val.apply(10, 10.5));
```

What is the result?

- A. 20
- B. 20.5
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:**

### **QUESTION 45**

Given the code fragment:

What is the result?

- A. 4000.0
- B. 4000
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 46**

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?

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

## **QUESTION 47**

Given the records from the Employee table:

eid	ename	- 0
111	Tom	-8
112	Jerry	- 3
113	Donald	III.

and given the code fragment:

```
rs.absolute(2);
   System.out.println(rs.getInt(1) + " " + rs.getString(2));
} catch (SQLException ex) {
   System.out.println("Exception is raised");
}
```

#### Assume that:

The required database driver is configured in the classpath.

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

What is the result?

A. The Employee table is updated with the row:

112 Jack

and the program prints:

112 Jerry

B. The Employee table is updated with the row:

112 Jack

and the program prints:

112 Jack

C. The Employee table is not updated and the program prints:

112 Jerry

D. The program prints Exception is raised.

Correct Answer: A Section: (none) Explanation

# Explanation/Reference:

## **QUESTION 48**

Given the code fragment:

```
class CallerThread implements Callable<String> {
    String str;
    public CallerThread(String s) { this.str=s; }
    public String call() throws Exception {
        return str.concat("Call");
    }
}
```

and

#### Which statement is true?

- A. The program prints Call Call and terminates.
- B. The program prints Call Call and does not terminate.
- C. A compilation error occurs at line n1.
- D. An ExecutionException is thrown at run time.

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

#### **QUESTION 49**

Given the code fragment:

```
public class FileThread implements Runnable {
    String fName;
    public FileThread(String fName) { this.fName = fName; }
    public void run () System.out.println(fName);}
    public static void main (String[] args) throws IOException, InterruptedException {
        ExecutorService executor = Executors.newCachedThreadPool();
        Stream<Path> listOfFiles = Files.walk(Paths.get("Java Projects"));
        listOfFiles.forEach(line -> {
            executor.execute(new FileThread(line.getFileName().toString())); //
line n1
        });
        executor.shutdown();
        executor.awaitTermination(5, TimeUnit.DAYS); //
line n2
    }
}
```

The Java Projects directory exists and contains a list of files. What is the result?

- A. The program throws a runtime exception at line n2.
- B. The program prints files names concurrently.
- C. The program prints files names sequentially.
- D. A compilation error occurs at line n1.

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

#### **QUESTION 50**

Given the code fragments:

```
class TechName {
    String techName;
    TechName (String techName) {
        this.techName=techName;
    }
}
and

List<TechName> tech = Arrays.asList (
    new TechName("Java-"),
    new TechName("Oracle DB-"),
new TechName("J2EE-")
);
Stream<TechName> 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 Section: (none) Explanation

## Explanation/Reference:

#### **QUESTION 51**

Given that /green.txt and /colors/yellow.txt are accessible, and the code fragment:

```
Path source = Paths.get("/green.txt);
Path target = Paths.get("/colors/yellow.txt);
Files.move(source, target, StandardCopyOption.ATOMIC_MOVE);
Files.delete(source);
```

## Which statement is true?

- A. The green.txt file content is replaced by the yellow.txt file content and the yellow.txt file is deleted.
- B. The yellow.txt file content is replaced by the green.txt file content and an exception is thrown.
- C. The file green.txt is moved to the /colors directory.
- D. A FileAlreadyExistsException is thrown at runtime.

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 52**

Given:

```
interface Doable {
   public void doSomething (String s);
}
```

Which two class definitions compile?

Correct Answer: AE Section: (none) Explanation

**Explanation/Reference:** 

