

# 1z0-809.exam

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



1z0-809

Java SE 8 Programmer II



#### Exam A

## **QUESTION 1**

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 nl 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: B Section: (none) Explanation

# **Explanation/Reference:**

#### **QUESTION 2**

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 Section: (none) Explanation

## **Explanation/Reference:**

#### **QUESTION 3**

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:

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

C. Replace line 26 with:

 $\dot{i}$  catch (ArithmeticException | NumberFormatException e) {

D. Replace line 27 with:



throw e;

Correct Answer: C Section: (none) Explanation

## **Explanation/Reference:**

## **QUESTION 4**

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: A Section: (none) Explanation



## Explanation/Reference:

## **QUESTION 5**

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?

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: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 6**

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:
Book b1 = new Book (101, "Java Programing");
Book b2 = new Book (102, "Java Programing");
System.out.println (b1.equals(b2));
                                                          //line n2
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: C
Section: (none)
Explanation
Explanation/Reference:
QUESTION 7
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: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 8**

Which action can be used to load a database driver by using JDBC3.0?

- A. Add the driver class to the META-INF/services folder of the JAR file.
- B. Include the JDBC driver class in a jdbc.properties file.
- C. Use the java.lang.Class.forName method to load the driver class.
- D. Use the DriverManager.getDriver method to load the driver class.

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 9**

Given the code fragment:

Assume that the Pics directory does NOT exist.



#### What is the result?

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

Correct Answer: C
Section: (none)
```

# **Explanation/Reference:**

#### **QUESTION 10**

**Explanation** 

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: B Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 11**

Given the code fragment:

```
public static void main (String [ ] args) throws IOException {
    BufferedReader br = new BufferedReader (new InputStremReader (System.in));
    System.out.print ("Enter GDP: ");
    //line 1
}
```

Which code fragment, when inserted at line 1, enables the code to read the GDP from the user?

```
A. int GDP = Integer.parseInt (br.readline());
B. int GDP = br.read();
C. int GDP = br.nextInt();
D. int GDP = Integer.parseInt (br.next());
```

Correct Answer: C 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: B 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: C 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)
                                       //line n2
    .filter(cf2
.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: A Section: (none) Explanation



# **Explanation/Reference:**

```
QUESTION 15
Given:
public class Emp
    String fName;
    String lName;
    public Emp (String fn, String ln) {
        fName = fn;
        lName = ln;
    public String getfName() { return fName; }
    public String getlName() { return lName; }
and the code fragment:
List<Emp> emp = Arrays.asList (
    new Emp ("John", "Smith"),
    new Emp ("Peter", "Sam"),
    new Emp ("Thomas", "Wale"));
emp.stream()
    //line n1
    .collect(Collectors.toList());
```

Which code fragment, when inserted at line n1, sorts the employees list in descending order of fName and then ascending order of 1Name?

```
A. .sorted (Comparator.comparing(Emp::getfName).reserved().thenComparing(Emp::getlName))
B. .sorted (Comparator.comparing(Emp::getfName).thenComparing(Emp::getlName))
C. .map(Emp::getfName).sorted(Comparator.reserveOrder())
D. .map(Emp::getfName).sorted(Comparator.reserveOrder().map(Emp::getlName).reserved
```

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

## **QUESTION 16**



#### 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 Section: (none) Explanation

# Explanation/Reference:

## **QUESTION 17**

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?
  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
Section: (none)
Explanation
Explanation/Reference:
QUESTION 18
Given the structure of the STUDENT table:
Student (id INTEGER, name VARCHAR)
Given:
```



#### 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 Section: (none) Explanation

# Explanation/Reference:

## **QUESTION 19**

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
Section: (none)
Explanation
Explanation/Reference:
QUESTION 20
Given the code fragment:
Stream<Path> files = Files.walk(Paths.get(System.getProperty("user.home")));
    files.forEach (fName -> {
                                                 //line n1
        trv {
            Path aPath = fName.toAbsolutePath();
                                                     //line n2
            System.out.println(fName + ":"
                + Files.readAttributes(aPath, Basic.File.Attributes.class).creationTime
());
        } catch (IOException ex) {
```



```
ex.printStackTrace();
});
```

What is the result?

- 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 21**

```
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);

What is the result?



- A. 10123 Ford 10124 BMWB. 10124 BMW 10123 Ford
- C. A compilation error occurs.
- D. A ClassCastException is thrown at run time.

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 22**

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 nl
            isr.skip(2);
            i = isr.read ();
            c = (char) i;
            System.out.print(c);
        }
    } catch (Exception e) {
        e.printStackTrace();
    }
}
```

What is the result?

- A. ur :: va
- В. иеЈа
- C. The program prints nothing.



D. A compilation error occurs at line n1.

Correct Answer: A Section: (none) Explanation

# **Explanation/Reference:**

#### **QUESTION 23**

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 line 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: C Section: (none) Explanation

# **Explanation/Reference:**



## **QUESTION 24**

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: B Section: (none) Explanation

# **Explanation/Reference:**

# **QUESTION 25**

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 Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 26**

Given the code fragments:

```
public class Book implements Comparator<Book> {
   String name;
   double price;
   public Book () {}
   public Book(String name, double price) {
      this.name = name;
      this.price = price;
   }
```



```
public int compare(Book b1, Book b2) {
    return b1.name.compareTo(b2.name);
}
public String toString() {
    return name + ":" + price;
}
}
and

List<Book>books = Arrays.asList (new Book ("Beginning with Java", 2), new book ("A Guide to Java Tour", 3));
    Collections.sort(books, new Book());
    System.out.print(books);

What is the result?

A. [A Guide to Java Tour:3, Beginning with Java:2]
B. [Beginning with Java:2, A Guide to Java Tour:3]
C. A compilation error occurs because the Book class does not override the abstract method compareTo().
D. An Exception is thrown at run time.
```

Correct Answer: A Section: (none) Explanation

## **Explanation/Reference:**

## **QUESTION 27**

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 -> x.length()>3).count()
C. listVal.stream().peek(x -> x.length()>3).count().get()
```



```
D. listVal.stream().filter(x -> x.length()>3).mapToInt(x -> x).count()
Correct Answer: C
```

Section: (none)
Explanation

## **Explanation/Reference:**

## **QUESTION 28**

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

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 29**

```
Given:

public class Canvas implements Drawable {
    public void draw () { }
}

public abstract class Board extends Canvas {
    public class Paper extends Canvas {
        protected void draw (int color) { }
}

public class Frame extends Canvas implements Drawable {
        public void resize () { }
}

public interface Drawable {
        public abstract void draw ();
}
```

Which statement is true?

- A. Board does not compile.
- B. Paper does not compile.
- C. Frame does not compile.
- D. Drawable does not compile.
- E. All classes compile successfully.

Correct Answer: B Section: (none) Explanation

# Explanation/Reference:



## **QUESTION 30**

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: E Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 31**

Given the code fragment:

What is the result?



```
A. 100, Robin, HR
  101, Peter, HR
B. A compilation error occurs at line n1.
C. 100, Robin, HR
  101, Peter, HR
  200, Mary, AdminServices
D. 100, Robin, HR
   200, Mary, AdminServices
  101, Peter, HR
Correct Answer: C
Section: (none)
Explanation
Explanation/Reference:
QUESTION 32
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 33**

Which statement is true about the single abstract method of the java.util.function.Function interface?

- A. It accepts one argument and returns void.
- B. It accepts one argument and returns boolean.
- C. It accepts one argument and always produces a result of the same type as the argument.
- D. It accepts an argument and produces a result of any data type.

Correct Answer: C Section: (none) Explanation

## Explanation/Reference:

Reference: http://winterbe.com/posts/2014/03/16/java-8-tutorial/ (functions)

#### **QUESTION 34**

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: http://doctrine-dbal.readthedocs.org/en/latest/reference/configuration.html

#### **QUESTION 35**

Given the code fragment:

```
List<Integer> nums = Arrays.asList (10, 20, 8):
System.out.println (
```



```
//line n1
);
```

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: C Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 36**

Given:

```
public final class IceCream {
    public void prepare() {}
}
public class Cake {
    public final void bake(int min, int temp) {}
    public void mix() {}
}
public class Shop {
    private Cake c = new Cake ();
    private final double discount = 0.25;
    public void makeReady () { c.bake(10, 120); }
}
public class Bread extends Cake {
    public void bake(int minutes, int temperature) {}
    public void addToppings() {}
}
```

Which statement is true?

- A. A compilation error occurs in IceCream.
- B. A compilation error occurs in Cake.
- C. A compilation error occurs in  ${\tt Shop.}$



- D. A compilation error occurs in Bread
- E. All classes compile successfully.

Correct Answer: D Section: (none) Explanation

## Explanation/Reference:

## **QUESTION 37**

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 38**

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 39**

The data.doc, data.txt and data.xml files are accessible and contain text. Given the code fragment:

What is the result?

- A. The program prints the content of data.txt file.
- B. The program prints:

```
Exception <<The content of the data.txt file>>
Exception
```

- C. A compilation error occurs at line n1.
- D. The program prints the content of the three files.

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 40**

Given:



```
public void open () {
        System.out.print("Open");
public class Test {
    public static void main (String [] args) throws Exception
        try (Folder f = new Folder())
             f.open();
Which two modifications enable the code to print Open Close?
A. Replace line n1 with:
   class Folder implements AutoCloseable {
B. Replace line n1 with:
   class Folder extends Closeable {
C. Replace line n1 with:
   class Folder extends Exception {
D. At line n2. insert:
  final void close ()
           System.out.print("Close");
E. At line n2, insert:
  public void close () throws IOException {
           System.out.print("Close");
Correct Answer: AC
Section: (none)
Explanation
Explanation/Reference:
QUESTION 41
Given the code fragment:
```

## UnaryOperator<Double> uo = s -> s +10.0; codes.replaceAll(uo); codes.forEach(c -> System.out.println(c));

List<Integer> codes = Arrays.asList (10, 20);



## What is the result?

- A. 20.0 30.0
- B. 10
- C. A compilation error occurs.
- D. A NumberFormatException is thrown at run time.

Correct Answer: A Section: (none) Explanation

# **Explanation/Reference:**

#### **QUESTION 42**

```
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: A Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 43**

Item table

Given:

```
• 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);
11.
      String guery = "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"));
         System.out.println("Price: " + rs.getDouble("Price"));
17.
          18.
19.
20. } catch (SQLException se) {
      System.out.println("Error");
21.
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 Section: (none) Explanation

# **Explanation/Reference:**

#### **QUESTION 44**

worker.start();

Given:

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);
- $\underline{\textbf{B. Replace}} \; \texttt{line n1} \; \textbf{with} \; \texttt{class Master extends Thread} \; \left\{ \right.$

C. At line n2, insert CyclicBarrier cb = new CyclicBarrier(1, master);

D. At line n2, insert CyclicBarrier cb = new CyclicBarrier(master);

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 45**

Given the code fragment:

```
String str = "Java is a programming language";
ToIntFunction<String> indexVal = str: : indexOf; //line n1
int x = indexVal.applyAsInt("Java"); //line n2
System.out.println(x);
```

What is the result?



- B 1
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Correct Answer: A Section: (none) Explanation

## Explanation/Reference:

## **QUESTION 46**

Given the code fragment:

```
List<String> codes = Arrays.asList ("DOC", "MPEG", "JPEG");
codes.forEach (c -> System.out.print(c + " "));
```



```
String fmt = codes.stream()
    .filter (s-> s.contains ("PEG"))
    .reduce((s, t) -> s + t).get();
System.out.println("\n" + fmt);
```

## What is the result?

- A. DOC MPEG JPEG MPEGJPEG
- B. DOC MPEG MPEGJPEG MPEGMPEGJPEG
- C. MPEGJPEG MPEGJPEG
- D. The order of the output is unpredictable.

Correct Answer: A Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 47**

Given the code fragment:

```
List<String> nL = Arrays.asList("Jim", "John", "Jeff");
Function<String, String> 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: D Section: (none) Explanation



## Explanation/Reference:

## **QUESTION 48**

Given:

```
public interface Moveable<Integer> {
    public default void walk (Integer distance) {System.out.println("Walking");)
    public void run(Integer distance);
}
```

Which statement is true?

- 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:
- B. Moveable can be used as below: Moveable<Integer> animal = n - > n + 10; animal.run(100); animal.walk(20);
- 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: B Section: (none) Explanation

# **Explanation/Reference:**

## **QUESTION 49**

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:

```
QUESTION 50
Given:
class FuelNotAvailException extends Exception {
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/Reference:

**Explanation** 



#### **QUESTION 51**

Given the definition of the Emp class:

```
public class Emp
   private String eName;
   private Integer eAge;
   Emp(String eN, Integer eA)
       this.eName = eN_i
       this.eAge = eA_i
   public Integer getEAge () {return eAge;}
   public String getEName () {return eName;}
and code fragment:
List<Emp>li = Arrays.asList(new Emp("Sam", 20), New Emp("John", 60), New Emp("Jim", 51));
Predicate<Emp> agVal = s -> s.getEAge() > 50;
                                                      //line n1
li = li.stream().filter(agVal).collect(Collectors.toList());
names.forEach(n -> System.out.print(n + " "));
What is the result?
A. Sam John Jim
B. John Jim
C. A compilation error occurs at line n1.
D. A compilation error occurs at line n2.
Correct Answer: A
```

Section: (none) **Explanation** 

# **Explanation/Reference:**

## **QUESTION 52**

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 53**

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: B Section: (none) Explanation

# **Explanation/Reference:**

#### **QUESTION 54**

Given the code fragment:



BiFunction<Integer, Double, Integer> val = (t1, t2) -> 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 55**

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 Section: (none) Explanation

# **Explanation/Reference:**

Reference: http://tutorials.jenkov.com/java-date-time/duration.html#accessing-the-time-of-a-duration