Vendor: Oracle

Exam Code: 1Z0-808

Exam Name: Java SE 8 Programmer I

Question 41—Question 50

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QUESTION 41
Given the following code for the classes MyException and Test:

```
public class MyException extends RuntimeException {}

public class Test {
    public static void main(String[] args) {
        try {
            method1();
        }
        catch (MyException ne) {
            System.out.print("A");
        }
    }
    public static void method1() { // line n1
        try {
            throw Math.random() > 0.5 ?new MyException() :new RuntimeException();
        }
        catch (RuntimeException re) {
            System.out.print("B");
        }
    }
}
```

What is the result?

A. A
B. B
C. Either A or B
D. A B

E. A compile time error occurs at line n1

Answer: B
Explanation:
"catch (RuntimeException re)" always catches a RuntimeException.

QUESTION 42
Given:

```java
public class App {

    String myStr = "7007";

    public void doStuff(String str) {
        int myNum = 0;
        try {
            String myStr = str;
            myNum = Integer.parseInt(myStr);
        } catch (NumberFormatException ne) {
            System.err.println("Error");
        }
        System.out.println(
            "myStr: " + myStr + ", myNum: " + myNum);
    }

    public static void main(String[] args) {
        App obj = new App();
        obj.doStuff("9009");
    }
}
```

What is the result?

A. myStr: 9009, myNum: 9009
B. myStr: 7007, myNum: 7007
C. myStr: 7007, myNum: 9009
D. Compilation fails

Answer: C

QUESTION 43

Which two are benefits of polymorphism?

A. Faster code at runtime

B. More efficient code at runtime

C. More dynamic code at runtime

D. More flexible and reusable code

E. Code that is protected from extension by other classes

Answer: CD

QUESTION 44

Given the code fragment:

```
int nums1[] = new int[3];
int nums2[] = {1, 2, 3, 4, 5};
nums1 = nums2;
for (int x : nums1){
    System.out.print(x + ":");
}
```

What is the result?

A. 1:2:3:4:5:

B. 1:2:3:

C. Compilation fails.

D. An ArrayoutofBoundsException is thrown at runtime.

Answer: A

QUESTION 45

Given:

```
public class Product {
    int id;
    String name;
    public Product(int id, String name) {
        this.id = id;
        this.name = name;
    }
}
```

And given the code fragment:

```
4. Product p1 = new Product(101, "Pen");
5. Product p2 = new Product(101, "Pen");
6. Product p3 = p1;
7. boolean ans1 = p1 == p2;
8. boolean ans2 = p1.name.equals(p2.name);
9. System.out.print(ans1 + ":" + ans2);
```

What is the result?

A. true:true
B. true:false
C. false:true
D. false:false

Answer: C

QUESTION 46
Given the following classes:

```
public class Employee {
    public int salary;
}

public class Manager extends Employee {
    public int budget;
}

public class Director extends Manager {
    public int stockOptions;
}
```

And given the following main method:

```
public static void main(String[] args) {
    Employee employee = new Employee();
    Manager  manager  = new Manager();
    Director director = new Director();
    //line n1
}
```

Which two options fail to compile when placed at line n1 of the main method?

A. employee.salary = 50_000;

B. director.salary = 80_000;

C. employee.budget = 200_000;

D. manager.budget = 1_000_000;

E. manager.stockOption = 500;

F. director.stockOptions = 1_000;

Answer: CE

Explanation:

C. budget is not a member of class employee.

E. stockOptions is not a member of class manager.

QUESTION 47

Given:

```
class Product {
    double price;
}

public class Test {
    public void updatePrice(Product product, double price) {
        price = price * 2;
        product.price = product.price + price;
    }
    public static void main(String[] args) {
        Product prt = new Product();
        prt.price = 200;
        double newPrice = 100;

        Test t = new Test();
        t.updatePrice(prt, newPrice);
        System.out.println(prt.price + " : " + newPrice);
    }
}
```

What is the result?

A. 200.0 : 100.0
B. 400.0 : 200.0
C. 400.0 : 100.0
D. Compilation fails.

Answer: C

Explanation:

After call to updatePrice prt.price change its value to 400 (prt is passed by reference)
variable newPrice never changes its value from 100 (newPrice is passed by value)

QUESTION 48
Given the code fragment:

```
if (aVar++ < 10) {
    System.out.println(aVar + " Hello World!");
} else {
    System.out.println(aVar + " Hello Universe!");
}
```

What is the result if the integer aVar is 9?

A. Hello World!
B. Hello Universe!
C. Hello World
D. Compilation fails.

Answer: A

QUESTION 49
Given the code fragment:

```
public static void main(String[] args) {
    String date = LocalDate
                    .parse("2014-05-04")
                    .format(DateTimeFormatter.ISO_DATE_TIME);
    System.out.println(date);
}
```

What is the result?

A. May 04, 2014T00:00:00.000
B. 2014-05-04T00:00: 00. 000
C. 5/4/14T00:00:00.000
D. An exception is thrown at runtime.

Answer: D
Explanation:
The exception java.time.temporal.UnsupportedTemporalTypeException is thrown at runtime.
We should use class LocalDateTime with ISO_DATE_TIME format or use the format
ISO_DATE to avoid the exception.
See ISO_DATE_TIME at
https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html
See examples at
https://gist.github.com/mscharhag/9195718

QUESTION 50

Given the code fragment:

```
public static void main(String[] args) {
    Short s1 = 200;
    Integer s2 = 400;
    Long s3 = (long) s1 + s2;        //line n1
    String s4 = (String) (s3 * s2);    //line n2
    System.out.println("Sum is " + s4);
}
```

What is the result?

A. Sum is 600
B. Compilation fails at line n1.
C. Compilation fails at line n2.
D. A ClassCastException is thrown at line n1.
E. A ClassCastException is thrown at line n2.

Answer: C

Explanation:

Compilation fails at n2 because the compiler cannot cast long to String.