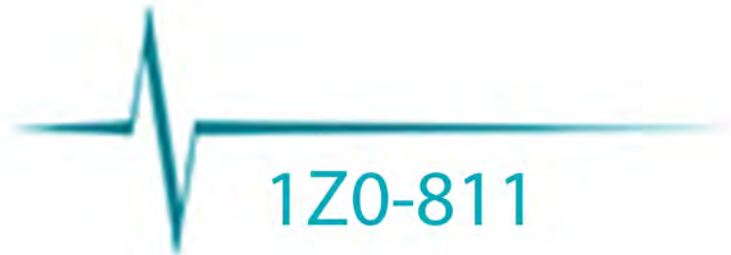


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Java Foundations



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# Oracle

## Exam 1Z0-811

### Java Foundations

Version: 3.0

[ Total Questions: 75 ]

**Question No : 1**

Given the code fragment:

```
List<String> names = new ArrayList<>();  
names.add ("Joel");  
names.add ("Paul");  
names.remove (0);  
names.remove (0);  
System.out.println (names.isEmpty());  
names.add ("Joel");  
names.add ("Paul");  
names.clear();  
System.out.println (names.isEmpty ());
```

What is the result?

**A.**

false

true

**B.**

true

true

**C.**

false

false

**D.**

A runtime exception is thrown

**Answer: B**

**Question No : 2**

Given:

```
public class Course {  
    public static void main (String [] args) {  
        double courseFee = 1000.0;  
        float percentage = 5.0f;  
        // line n1  
        newFee = courseFee * percentage;  
        System.out.println (newFee);  
    }  
}
```

Which statement, when inserted at line n1, enables the Course class to compile?

- A. int newFee;
- B. double newFee;
- C. long newFee;
- D. float newFee;

**Answer: B**

### Question No : 3

Given the code fragment:

```
List<String> fls = new ArrayList<>();  
fls.add("jasmine");  
fls.add("rose");  
fls.add("lotus");  
fls.remove(2);  
fls.set(2, "lily");  
System.out.println(fls);
```

What is the result?

- A. [jasmine, rose, lily]
- B. A runtime exception is thrown.
- C. [jasmine, lily, lotus]
- D. [jasmine, rose, lotus, lily]

**Answer: B**

**Question No : 4**

Given the code fragment:

```
String flavors[] = {"Vanilla", "Chocolate"};
int choice = 2;
switch(choice) {
    case 1:
        System.out.println("Selected " + flavors[1] + " flavor.");
        break;
    case 2:
        System.out.println("Selected " + flavors[2] + " flavor.");
        break;
    default:
        System.out.println("Thank you!");
}
```

What is the result?

- A. Selected null flavor.
- B. Selected Chocolate flavor.
- C. An `ArrayIndexOutOfBoundsException` is thrown at run time.
- D. Selected Chocolate flavor.

Thank you!

**Answer: C**

**Question No : 5**

Given:

```
public static void main(String[] args) {
    int iterations = 100;

    while (count < iterations) {
        System.out.println("Iteration " + count);
        count++;
    }
}
```

What is the result?

- A. The program compiles and nothing is printed.
- B. Iteration plus an increasing number is printed 100 times.
- C. Iteration plus an increasing number is printed 99 times.
- D. An error occurs during compilation.

**Answer: D**

**Question No : 6**

Identify three advantages of object-oriented programming.

- A. separation of state and behavior
- B. modularity
- C. information sharing
- D. code reuse
- E. information hiding

**Answer: B,D,E**

Reference:

[https://www.tutorialspoint.com/object\\_oriented\\_analysis\\_design/ooad\\_quick\\_guide.htm](https://www.tutorialspoint.com/object_oriented_analysis_design/ooad_quick_guide.htm)

**Question No : 7**

Which two statements are true about the Java Runtime Environment (JRE)?

- A. It is responsible for garbage collection.
- B. It interprets bytecode stored in a .class file.
- C. It contains the JDK and Java APIs.
- D. It is platform independent.
- E. You must install the JRE to compile a .java file.

**Answer: B,D**

Reference: [https://en.wikipedia.org/wiki/Java\\_virtual\\_machine](https://en.wikipedia.org/wiki/Java_virtual_machine)

**Question No : 8**

Given:

```
public class App{
    int num;
    public int add(int x) {
        num = num + x;
        return num;
    }
    public void add(int x) {
        num = num + x;
    }
    public static void main(String[] args) {
        App obj = new App();
        obj.add (100);
        int ans = obj.add(100);
        System.out.println(obj.num);
    }
}
```

What is the result?

- A. 300
- B. 100
- C. 200
- D. A compilation error occurs.

**Answer: D**

#### Question No : 9

Which statement is true about exception handling?

- A. At least one catch block must accompany a try statement.
- B. All statements in a try block are executed, even if an exception occurs in the middle of the try block.
- C. At least one statement in a try block must throw an exception.
- D. All catch blocks must be ordered from general to most specific.

**Answer: D**

Reference: <https://www.javatpoint.com/multiple-catch-block-in-java>

**Question No : 10**

Given:

```
public class Test {  
    int var1;           // line n1  
    public static void main (String[] args) {  
        int var2;       // line n2  
        Test obj = new Test();  
        int var3 = var2 - obj.var1;  
        System.out.println(var3);  
    }  
}
```

What is the result?

- A. Compilation fails. To make it compile, replace line n1 with `var1 = 0;`
- B. Compilation fails. To make it compile, replace line n2 with `var2 = 0;`
- C. 0
- D. Nothing is printed.

**Answer: B**

**Question No : 11**

Given the code fragment:

```
String inputFromConsole = " betaTEST ";  
String cleanedInput;  
cleanedInput = inputFromConsole.toUpperCase();  
cleanedInput = cleanedInput.trim();  
System.out.println "[" + cleanedInput + "]" );
```

What is the result?

- A. [ BETATEST ]
- B. [betaTest]
- C. [ betaTest ]
- D. [BETATEST]

**Answer: D**



**Question No : 12**

Given the code fragment:

```
1. class App {  
2.  
3. }
```

Which two code fragments are valid at line 2?

**A.**

```
for (int count = 0; count < 5; count++)  
{ System.out.print(count);  
}
```

**B.**

```
package p1;
```

**C.**

```
import java.util.*;  
public void display() {  
List<Integer> nums = new ArrayList<> ();  
}
```

**D.**

```
{  
private int num;  
}
```

**E.**

```
private String name = "John";  
public void display()  
{ System.out.print(name);  
}
```

**Answer: B,E**

**Question No : 13**

Given the code fragment:

```
List<String> items = new ArrayList<> ();
items.add(1, "pen");
items.add(2, "pencil");
items.add(3, "erasers");
items.add("paper");
for (String x : items) {
    System.out.print (x + " ");
}
```

What is the result?

- A. pen pencil erasers paper
- B. paper pen pencil erasers
- C. A compilation error occurs.
- D. A runtime exception is thrown.

**Answer: D**

#### Question No : 14

Which statement is true about a mutator method?

- A. It replaces the default constructor.
- B. It returns mutated instance members.
- C. It must be declared private.
- D. It can be used to assign data to instance members.

**Answer: B**

Reference: <https://core.ac.uk/download/pdf/4824892.pdf>

#### Question No : 15

Given the code fragment: