

Online Training Weekly Quiz-1 Backend Freshers

Points: 160/230

1. Name *

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✓ **Correct** 10/10 Points

3. What is the primary purpose of Java Virtual Machine (JVM)? *

☐ To compile Java source code

☒ To execute Java bytecode

Feedback:

JVM is responsible for executing Java bytecode, which is an intermediate code generated by the Java compiler. This bytecode is platform-independent and can run on any device with a compatible JVM.

☐ To interpret Java source code

☐ To optimize Java programs

✓ **Correct** 10/10 Points

4. Which component is essential for writing and running Java programs? *

- ☐ Java Compiler
- ☐ Java Virtual Machine (JVM)
- ☒ Java Development Kit (JDK)

Feedback:

JDK is required for writing and running Java programs as it includes the Java compiler, JVM, and other tools needed for development.

- ☐ Integrated Development Environment (IDE)

✓ **Correct** 10/10 Points

5. What is the purpose of type casting in Java? *

- ☒ Changing the data type of a variable

Feedback:

Type casting is used to change the data type of a variable, ensuring compatibility in expressions and assignments.

- ☐ Initializing a variable
- ☐ Declaring a variable
- ☐ Accessing array elements

✓ **Correct** 10/10 Points

6. In Java, what is the purpose of the "switch-case" statement? *

- ☐ Iteration over a collection
- ☒ Conditional branching based on multiple values of an expression

Feedback:

The "switch-case" statement is used for conditional branching based on the values of an expression.

- ☐ Executing a block of code repeatedly
- ☐ Handling exceptions

✓ **Correct** 10/10 Points

7. What is the term for using the same method name with different parameter lists within a class? *

- ☐ Method overriding
- ☒ Method overloading

Feedback:

Method overloading is the practice of using the same method name with different parameter lists within a class.

- ☐ Method inheritance
- ☐ Method polymorphism

✓ **Correct** 10/10 Points

8. How do you access elements in a Java array? *

- ☒ Using index notation (e.g., array[0])

Feedback:

Elements in a Java array are accessed using index notation, such as array[0] to access the first element.

- ☐ Using dot notation (e.g., array.element)
- ☐ Using arrow notation (e.g., array->element)

☐ Using parentheses (e.g., array(0))

✓ **Correct** 10/10 Points

9. What is the primary purpose of constructors in Java? *

- ☐ Initializing static variables
- ☒ Creating objects and initializing instance variables

Feedback:

Constructors in Java are used for creating objects and initializing instance variables.

- ☐ Inheriting properties from a superclass
- ☐ Overriding superclass methods

✓ **Correct** 10/10 Points

10. Which block is optional in a Java "try-catch-finally" statement? *

- ☐ try
- ☐ catch
- ☒ finally

Feedback:The "finally" block in a Java "try-catch-finally" statement is optional.

- ☐ All blocks are mandatory

✗ **Incorrect** 0/10 Points

11. What is the primary purpose of the Stream API in Java file handling? *

- ☒ Reading and writing binary files

- ☐ Reading and writing character-based files
- ☐ Handling exceptions in file operations
- ☐ Managing file permissions ion 4

✓ **Correct** 10/10 Points

12. Which Java Collection is based on the principle of key-value pairs? *

- ☐ ArrayList
- ☐ LinkedList
- ☐ HashSet
- ☒ HashMap

Feedback:HashMap is a Java Collection based on the principle of key-value pairs.

✓ **Correct** 10/10 Points

13. Which operation is commonly performed using the "Map" function in Java Stream API? *

- ☐ Filtering elements
- ☒ Transforming elements

Feedback:

The "Map" function in Java Stream API is commonly used for transforming elements.

- ☐ Reducing elements
- ☐ Sorting elements

✓ **Correct** 10/10 Points

14. What is the correct syntax for declaring a variable of integer type in Java? *

☒ int number;

Feedback:

The correct syntax for declaring a variable of integer type in Java is 'int number;'.

☐ integer number;

☐ variable int;

☐ number = int;

✓ **Correct** 10/10 Points

15. Write the command to compile a Java program named "HelloWorld.java" using the command line. *

☐ java HelloWorld.java

☒ javac HelloWorld.java

Feedback:The correct command to compile a Java program is 'javac HelloWorld.java'.

☐ compile HelloWorld.java

☐ run HelloWorld.java

✓ **Correct** 10/10 Points

16. What is the output of the following code snippet?

```
int x = 5;  
double y = 2.5;  
System.out.println(x + y); *
```

☒ 7.5

Feedback:

The output of the code snippet is '7.5' because the integer 'x' is implicitly converted to a double before addition.

- ☐ 8
- ☐ 7
- ☐ 2.5

✓ **Correct** 10/10 Points

17. What is the value of 'result' after the following code execution?

```
int a = 10;  
int b = 3;  
int result = a % b; *
```

- ☒ 1

Feedback:

The value of 'result' is '1' because the modulus operator (%) gives the remainder of the division.

- ☐ 0
- ☐ 3
- ☐ 10

✗ **Incorrect** 0/10 Points

18. Define a method named 'multiply' that takes two integers as parameters and returns their product. *

- ☒ `public static int multiply(int x, int y) { return x*y; }`
- ☐ `int multiply(int x, int y) { return x*y; }`

- ☐ `public int multiply(int x, int y) { return x*y; }`
- ☐ `int multiply(int x, double y) { return x*y; }`

✗ **Incorrect** 0/10 Points

19. Choose the right Java code to find the sum of all elements in the given array.

`int[] numbers = {1, 2, 3, 4, 5};` *

- ☐ `int sum = 0; for (int num : numbers) { sum += num; };`
- ☐ `int sum = 0; for (int num in numbers) { sum += num; };`
- ☒ `int sum = 0; for (int i = 0; i < numbers.length; i++) { sum += i; };`
- ☐ `int sum = 0; for (int num : numbers) { i += num; };`

✓ **Correct** 10/10 Points

20. Choose right lambda expression to represent the following functional interface:

`interface Calculator { int operate(int a, int b); }` *

- ☒ `Calculator addition = (a, b) -> a + b;`

Feedback:

The correct lambda expression representing the 'Calculator' interface is 'Calculator addition = (a, b) -> a + b;'.

- ☐ `(a, b) -> int { return a + b; }`
- ☐ `Calculator addition = (int a, int b) -> a + b;`
- ☐ `(int a, int b) -> { return a + b; }`

✗ **Incorrect** 0/10 Points

21. Given the following:

```
1. class Ex1{  
2. public static void main(String[] args) {  
3. int a[] = {1,2,3,4};  
4. System.out.print(a instanceof Object);  
5. }  
6. }
```

What is the result?

NOTE: The keyword "instanceof" is use to check whether an object is of a particular type. *

- ☐ Will produce output as true
- ☐ Compilation fails due to error at line 3.
- ☒ Compilation fails due to error at line 4.
- ☐ Length of this array is 3.
- ☐ Will produce output as false

✗ **Incorrect** 0/10 Points

22. Given the following:

```
1. class Ex1{  
2. public static void main(String[] args) {  
3. int a[] = { 1,2,053,4};  
4. int b[][] = { {1,2,4}, {2,2,1},{0,43,2}};  
5. System.out.print(a[3]==b[0][2] );  
6. System.out.print("'" + (a[2]==b[2][1]));  
7. }  
8. }
```

What is the result? *

- ☐ true true
- ☒ Compilation fails.
- ☐ true false
- ☐ false true
- ☐ false false

✗ **Incorrect** 0/10 Points

23. Given the following:

```
1. class Ex1{  
2. int a=10;  
3. public static void main(String[] args) {  
4. new Ex1().print();  
5. }  
6. public void print(){  
7. int a = 8;  
8. System.out.print(a + " ");  
9. }  
10. }
```

What is the result? *

- ☐ 18
- ☐ Output is unpredictable.
- ☐ Compilation fails.
- ☐ 10

☐ 8

✓ **Correct** 10/10 Points

24. Given

```
import java.util.ArrayList;
import java.util.List;
public class JavaSETest {
    public static void main(String[] args) {
        List elements = new ArrayList<>();
        elements.add(10);
        int firstElmnt = elements.get(1);
        System.out.println(firstElmnt);
    }
}
```

What is the result? *

- ☐ null
- ☐ 10
- ☐ 0
- ☒ Throws IndexOutOfBoundsException on runtime.

Feedback:Throws IndexOutOfBoundsException on runtime.

✗ **Incorrect** 0/10 Points

25. 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? *

- ☐ 200.0 : 100.0
- ☐ 400.0 : 200.0
- ☐ 400.0 : 100.0
- ☒ Compilation fails.
- ☐ as newPrice variable is not getting updated. The instance variable price is getting updated



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