



PROGRAMMING IN JAVA

Assignment 12

TYPE OF QUESTION: MCQ

Number of questions: 10

Total marks: $10 \times 1 = 10$

QUESTION 1:

What is the correct way to create a thread in Java?

- a. Implementing the `Runnable` interface
- b. Extending the `Thread` class
- c. Both A and B
- d. None of the above

Correct Answer:

- c. Both A and B

Detailed Solution:

In Java, a thread can be created either by extending the `Thread` class or by implementing the `Runnable` interface.



QUESTION 2:

Which method starts a thread in Java?

- a. `start()`
- b. `run()`
- c. `execute()`
- d. `init()`

Correct Answer:

- a. `Start()`

Detailed Solution:

The `start()` method is used to begin execution of a new thread.



QUESTION 3:

Which layout arranges components in a row-based order?

- a. GridLayout
- b. FlowLayout
- c. BorderLayout
- d. CardLayout

Correct Answer:

- b. FlowLayout

Detailed Solution:

FlowLayout arranges components in a row, in the order they are added.



QUESTION 4:

What does the `setSize(400, 300)` ; method do in a `JFrame`?

- a. Sets the width to 300 and height to 400
- b. Sets the width to 400 and height to 300
- c. Maximizes the JFrame
- d. Closes the JFrame

Correct Answer:

- b. Sets the width to 400 and height to 300

Detailed Solution:

The `setSize(width, height)` method sets the size of the `JFrame`, where 400 is the width and 300 is the height.



QUESTION 5:

What does the `ResultSet` object contain in JDBC?

- a. Only non-null records from a table
- b. All records from a table, including null values
- c. Only null records
- d. A single column from a table

Correct Answer:

- b. The `ResultSet` object contains **all** records, including those with `null` values.

Detailed Solution:

The `ResultSet` object contains all records from the table, including those with null values.



QUESTION 6:

What will be the output of

```
System.out.println("hello".length());?
```

- a. 3
- b. 5
- c. 6
- d. 4

Correct Answer:

- b. 5

Detailed Solution:

The `length()` method returns the number of characters in a string. "hello" has 5 characters.



QUESTION 7:

What is the correct way to declare an array in Java?

- a. `int arr = new int(5);`
- b. `int[] arr = new int[5];`
- c. `array arr = new int[5];`
- d. `int arr[] = new int();`

Correct Answer:

- b. `int[] arr = new int[5];`

Detailed Solution:

In Java, an array is declared using `int[] arr = new int[5];` where 5 is the size.



QUESTION 8:

What will be printed by the following code?

```
System.out.println("Java".charAt(1));
```

- a. J
- b. a
- c. v
- d. A

Correct Answer:

- b. a

Detailed Solution:

Indexing in Java starts from 0, so `charAt(1)` returns the second character, which is a.



QUESTION 9:

What is printed when this code runs?

```
try {  
    System.out.println("Try block");  
} finally {  
    System.out.println("Finally block");  
}
```

- a. Only "Try block"
- b. Only "Finally block"
- c. "Try block" followed by "Finally block"
- d. Compilation error

Correct Answer:

- c. "Try block" followed by "Finally block"

Detailed Solution:

The `finally` block always executes, even if no exception occurs.



QUESTION 10:

Which Java GUI framework is lightweight?

- a. AWT
- b. Swing
- c. Both A and B
- d. None

Correct Answer:

- b. Swing

Detailed Solution:

Swing is a lightweight GUI framework compared to AWT, which is heavyweight.
