Java MCQs - 5

Topics : JAVA
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41. What is the output of the following code?

```
String str = "Hello, World!";
System.out.println(str.substring(7));
```

A) World!
B) Hello
C) World
D) Compiler error

Answer: A) World!

42. In Java, what is the purpose of the 'synchronized' keyword?

A) It is used to make a method static.
B) It is used to indicate that a method cannot be overridden.
C) It is used to synchronize the execution of multiple threads on a shared resource.
D) It is used to declare variables that cannot be modified.

Answer: C) It is used to synchronize the execution of multiple threads on a shared resource.

43. Which of the following is NOT a valid access modifier in Java?

A) private
B) public
C) protected
D) internal

Answer: D) internal

44. What is the purpose of the 'volatile' keyword in Java?

A) It is used to declare constants.
B) It is used to make a variable unmodifiable.
C) It is used to indicate that a variable's value may be changed unexpectedly by other parts of the program.
D) It is used to specify that a method cannot be overridden.

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Answer: C) It is used to indicate that a variable's value may be changed unexpectedly by other parts of the program.

45. What is the output of the following code?

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

A) 4
B) 5
C) 6
D) Compiler error

Answer: B) 5

46. Which of the following is NOT a valid type of exception handling in Java?

A) try-catch-finally
B) throw
C) throws
D) try-finally

Answer: D) try-finally

47. What is the correct way to declare a constant in Java?

A) constant int MAX_VALUE = 100;
B) final int MAX_VALUE = 100;
C) static final int MAX_VALUE = 100;
D) const MAX_VALUE = 100;

Answer: C) static final int MAX_VALUE = 100;

48. What is the output of the following code?

```
String str1 = "hello";
String str2 = "HELLO";
System.out.println(str1.equalsIgnoreCase(str2));
```

A) true
B) false
C) Compiler error
D) Runtime error

Answer: A) true

49. What is the purpose of the 'break' statement in Java?

A) It terminates the loop and transfers control to the next iteration.

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B) It terminates the program.
C) It is used to exit a switch statement.
D) It skips the remaining code in a loop and continues to the next iteration.

Answer: C) It is used to exit a switch statement.

50. Which of the following is true about the 'StringBuilder' class in Java?

A) It is immutable.
B) It is synchronized.
C) It is a subclass of the 'String' class.
D) It is mutable.

Answer: D) It is mutable.

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