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COIMBATORE-641 035, TAMIL NADU

Department of Artificial Intelligence and Machine Learning

23CSB201 Object Oriented Programming

Operators - MCQ

1) Which of the following is a relational operator in Java?

a.   +
b.   =
c.   ==
d.   &&

Answer: c

Explanation: The relational operator in Java is used to compare two values. The == operator is used to check if two values are equal or not.

2) Which of the following operators is used to perform addition in Java?

a.   +
b.   -
c.   *
d.   /

Answer: a

Explanation: The + operator is used to perform addition in Java.

3) Which of the following operators is used to perform division in Java?

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a.   %
b.   &
c. |
d.   /

Answer: d

Explanation: The / operator is used to perform division in Java.

4) Which of the following is a logical operator in Java?

a.   ++
b.   /
c.   &&
d.   =

Answer: c

Explanation: The logical operator in Java is used to perform logical operations such as AND, OR, and NOT. The && operator is used to perform the logical AND operation.

5) Which of the following is a unary operator in Java?

a.   +
b.   /
c.   -
d.   *

Answer: c
Explanation: The unary operator in Java is used to operate on a single operand. The - operator is used to perform negation or change the sign of a value.

6) Which of the following operators has the highest precedence in Java?

a.　　+
b.　　/
c.　　++
d.　　&&

Answer: c
Explanation: The increment operator (++) has the highest precedence in Java.

7) Which of the following operators is used to perform modulo division in Java?

a.　　/
b.　　%
c.　　*
d.　　&

Answer: b
Explanation: The % operator is used to perform modulo division in Java.

8) Which of the following operators is used to perform bitwise AND in Java?

a.　　&
b.　　&&
c.　　|
d.　　^

Answer: a
Explanation: The & operator is used to perform bitwise AND in Java.

9) Which of the following operators is used to perform equality comparison in Java?

a.　　=
b.　　==
c.　　!=
d.　　>

Answer: b
Explanation: The == operator is used to perform equality comparison in Java.

10) Which of the following operators is used to perform bitwise OR in Java?

a.　　|
b.　　^
c.　　&
d.　　||

Answer: a
Explanation: The | operator is used to perform bitwise OR in Java.

11) What is the output of the following code snippet?

```java
int i = 0;
while (i < 3) {
  System.out.print(i + " ");
  i++;
}
```

a.　　0 1 2
b.　　1 2 3

c.   0 1 2 3
d.   Infinite loop

Answer: a

Explanation: The output of the code snippet int i = 0; while (i < 3) { System.out.print(i + " "); i++; } is 0 1 2 because the while loop will iterate three times (until i is equal to 3), and on each iteration, it will print the current value of i and increment it by 1.

12) Which of the following is not a valid primitive data type in Java?

a.   int
b.   float
c.   double
d.   string

Answer: d

Explanation: string is not a valid primitive data type in Java. The correct spelling for the string data type is String (capitalized).

13) What is the output of the following code snippet?

```
int x = 5;
int y = 10;
if (x < y) {
   System.out.println("x is less than y");
} else {
   System.out.println("x is greater than or equal to y");
}
```

a.   x is less than y
b.   x is greater than or equal to y
c.   Compilation error
d.   Runtime error

Answer: a

Explanation: The output of the code snippet int x = 5; int y = 10; if (x < y) { System.out.println("x is less than y"); } else { System.out.println("x is greater than or equal to y"); } is x is less than y because x is less than y, so the if block is executed and prints the corresponding message.

14) Which of the following operators is used to perform decrement in Java?

a.   --
b.   +
c.   *
d.   &

Answer: a

Explanation: The decrement operator (--) is used to decrease the value of a variable by 1 in Java.

15) Which of the following operators is used to perform logical OR in Java?

a.   &
b.   &&
c. |
d.   ^

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Answer: c

Explanation: The | operator is used to perform logical OR in Java.

16) Whatt is the output of the following code snippet?
    int a = 5;
    int b = 2;
    int c = a / b;
    System.out.println(c);
a.   2
b.   2.5
c.   3
d.   Compilation error
Answer: a
Explanation: The output of the code snippet int a = 5; int b = 2; int c = a / b;
System.out.println(c); is 2 because integer division is performed, which truncates the
decimal part.
17) Which of the following operators is used to perform left shift in Java?
a.   <<
b.   >>
c.   &
d. |
Answer: a
Explanation: The << operator is used to perform left shift in Java.

18) Which of the following is not a valid identifier in Java?
a. $test
b.   _test
c.   123test
d.   test123
Answer: c
Explanation: Identifiers in Java cannot start with a digit. Therefore, 123test is not a
valid identifier.

19) Which of the following is a conditional operator in Java?
a.   =
b.   *
c.   +
d.   ?
Answer: d
Explanation: The conditional operator (also known as ternary operator) in Java is
represented by the ? symbol. It is used to evaluate a boolean expression and return one
of two values based on the result.
20) What is the output of the following code snippet?
    int x = 10;
    int y = 20;
    int z = x++ + ++y;
    System.out.println(z);
a.   31
b.   32
c.   33
d.   34

Answer: c

Explanation: The output of the code snippet int x = 10; int y = 20; int z = x++ + ++y; System.out.println(z); is 33. The value of z is computed as 10 + 21 (x++ returns the original value of x, while ++y increments y before its value is used in the expression).

21) Which of the following is a unary logical operator in Java?
a.   !
b.   &
c. |
d.   ^

Answer: a

Explanation: The ! operator is a unary logical operator in Java. It is used to perform the logical NOT operation.

22) What is the output of the following code snippet?

```
int i = 0;
do {
System.out.print(i + " ");
i++;
} while (i < 3);
```

a.   0 1 2
b.   1 2 3
c.   0 1 2 3
d.   Infinite loop

Answer: a

Explanation: The output of the code snippet int i = 0; do { System.out.print(i + " "); i++; } while (i < 3); is 0 1 2 because the do-while loop will iterate three times (until i is equal to 3), and on each iteration, it will print the current value of i and increment it by 1.

23) Which of the following operators is used to perform bitwise XOR in Java?
a.   ^
b. |
c.   &
d.   ~

Answer: a

Explanation: The ^ operator is used to perform bitwise XOR (exclusive OR) in Java. It returns a 1 in each bit position where the corresponding bits of either but not both operands are 1.

24) What is the output of the following code snippet?

```
int a = 5;
int b = 7;
System.out.println((a > b) ? "a is greater than b" : "a is less than or equal to b");
```

a.   a is greater than b
b.   a is less than or equal to b
c.   Compilation error
d.   Runtime error

Answer: b

Explanation: The output of the code snippet int a = 5; int b = 7; System.out.println((a > b) ? "a is greater than b" : "a is less than or equal to b"); is a is less than or equal to b

because the expression (a > b) is false, so the second option in the ternary operator is executed.