Quiz 1 Java

1) What is the output of the following code?
int x = 5, y = 10;
System.out.println(x > 2 && y < 15);
A) true
B) false
C) Compilation Error
D) Runtime Error

2)What is the default value of a variable of
type int in Java?
A. 0
B. null
C. 1
D. Undefined

3)int num = 8;
if (num % 2 == 0)
    System.out.println("Even");
else
    System.out.println("Odd");
A. Even
B. Odd
C. Compilation Error
D. Runtime Error

4)What happens if the default case is placed before all other cases?
A) It will always execute
B) It will execute only if no other case matches
C) Compilation error
D) It will execute before checking other cases

5)What is the purpose of the break statement in a switch case?

A. To terminate the program

B. To exit the switch case block

C. To pause execution for a specific time

D. To repeat the case multiple times

6)Which of the following data types can store decimal values?

A. int

B. float

C. boolean

D. char

7)What will be the output of this program?

```
boolean x = true, y = false;
if (x && !y) {
    System.out.println("Hello");
} else {
    System.out.println("world");
}
```

A) Hello

B) World

C) Compilation Error

D) Runtime Error

8)What will be the output of the following Java program?

```
int num = 10;
switch (num) {
    case 5:
    case 10:
        System.out.println("Matched 10");
    case 15:
        System.out.println("Matched 15");
        break;
}
```

A. Matched 10

B. Matched 15

C. Compilation Error

D. No Output

9)Which of the following is NOT a logical operator in Java?

A) &&

B) ||

C) !

D) &

10)Which of the following data types can be used in a switch expression in Java?

A. int

B. char

C. String

D. All of the above

11)What is the output of 10 ^ 10 in Java?

System.out.println(10 ^ 10);

A) 10

B) 0

C) 1

D) 20

12)What will be the output of the following Java code?

```
int x = 10, y = 20;
if (x == 10)
   if (y == 20)
      System.out.println("Hello");
   else
      System.out.println("World");
```

A. Hello

B. World

C. Compilation Error

D. No Output

13)Which of the following is NOT a primitive data type in Java?

A. int

B. float

C. String

D. Boolean

14)Which of the following statements is TRUE about if-else in Java?

A. The else block is mandatory.

B. Java allows multiple else blocks.

C. The if condition must always be enclosed in parentheses ().

D. The if statement must always be followed by an else.

15)What is the correct syntax for an if-else in Java?

A. if condition then { statements } else { statements }

B. if (condition) { statements } else { statements }

C. if { condition } { statements } else (statements)

D. if condition: statements; else: statements;