* **QUESTIONS ON CONDITIONALS AND LOOPS**

# Q.1 What is the output of the following code?

int i = 0;

for(i = 0 ; i < 5; i++){

}

System.out.println(i);

A. 5  
B. 0  
C. 4  
D. Compilation Error

# Q.2 What is the purpose of the continue statement in a loop?

a) To exit the loop immediately  
b) To skip the current iteration and move to the next iteration  
c) To terminate the program  
d) To execute a specific block of code

EXPLANATION:- The *continue* statement in Java is used to skip the current iteration of a loop and move to the next iteration.

# Q.3  Which loop construct guarantees that the loop body is executed at least once?

a) for loop  
b) while loop  
c) do-while loop  
d) continue statement

EXPLANATION:- The do-while loop in Java guarantees that the loop body is executed at least once, as the condition is checked after the loop body is executed.

# Q.4 What is the output of the following program?



 public class Test{

public static void main(String []args){

int i = 0;

for(i = 0; i < 10; i++){



break;

}

System.out.println(i);

}

}

A. 1  
B. 0  
C. 10  
D. 9

EXPLANATION:- When a *break* statement is encountered inside a loop, the loop is immediately terminated and the program control resumes at the next statement following the loop.

# Q.5 What is the key difference between a while loop and a do-while loop in Java?

a) The syntax used to define the loop  
b) The number of iterations performed  
c) The condition check timing  
d) The ability to use the break statement

EXPLANATION:- The key difference between a while loop and a do-while loop in Java is the timing of the condition check. In a while loop, the condition is checked before the loop body is executed, whereas in a do-while loop, the condition is checked after the loop body is executed.