PROGRAMMING IN JAVA
Assignment 0
TYPE OF QUESTION: MCQ

Number of questions: 10   Total marks: 10 × 1 = 10

QUESTION 1:

What will be the output of the following code snippet?

```
#include <stdio.h>
void solve() {
    int a = 3;
    int res = a++ + ++a + a++ + ++a;
    printf("%d", res);
}
int main() {
    solve();
    return 0;
}
```

a. 12
b. 24
c. 20
d. 18

Correct Answer: c. 20

Detailed Solution:

In the given code snippet, the solve() function is called from the main() function. Inside the solve() function: int a = 3; initializes the variable a with the value 3. int res = a++ + ++a + a++ + ++a; performs a series of arithmetic operations and assigns the result to the variable res. a++ is a post-increment operation, which means the value of a is used and then incremented by 1. So, initially, a++ evaluates to 3, and a becomes 4. ++a is a pre-increment operation, which means the value of a is incremented by 1 and then used. So, after the previous operation, ++a evaluates to 5, and a becomes 5. a++ is another post-increment operation. At this point, a is 5, and the expression evaluates to 5. Then, a becomes 6. ++a is another pre-increment operation. After the previous operation, ++a evaluates to 7, and a becomes 7. Therefore, the overall expression becomes 3 + 5 + 5 + 7, which results in 20 and is stored in the variable res. printf("%d", res); prints the value of res, which is 20.

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