**PF-AI-C**

**Quiz 02-A**

**Name:**  **Roll No.**

**Question 01: Write the correct output of the following code snippets. (5 marks)**

| **1.** | int x = 4;  int y = 2, z = 1;  int result1 = x - y + z \* (x / y)+((x\*y)/2+(x+y)); int result2 = (x - y) + (z \* x) / y;  int result3 = x / y \* z + x % y;  cout<<result1<<" "<<result2<<" "<<result3<<endl; | 14 4 2 |
| --- | --- | --- |
| **2.** | int a = 8; int b = 5; int c = 2;  int result = (a & b) + c + (~a ^ b) / c ; cout<<result<<endl; | -5 |

**Question 02: Write a C++ program that:**

1. **Takes an unsigned integer n and an integer p as inputs.**
2. **Clears (sets to 0) the bit at position p in n using bitwise operations.**
3. **Outputs the updated value of n.**

**(5 Marks)**

**#include <iostream>**

**using namespace std;**

**int main() {**

**unsigned int n;**

**int p; // input //**

**cout << "Enter an unsigned integer n : ";**

**cin >> n;**

**cout << "Enter the bit position to clear p: ";**

**cin >> p; // Clearing the bit at position p//**

**n = n & (~(1 << p));**

**cout << "The value of n is: " << n << endl; }**