**Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AI-A Fall 2024**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ProgrammingFundamentals**

**Section:\_\_\_\_\_\_\_\_\_\_\_\_\_ Quiz 2**

**B**

**Q1: Write output of the following cpp code:**

int main() {

int p = 12;

int q = 5;

int r = 3; Solution : 35 -6

int s = 7;

int result;

result = (p - q) \* (r + s) / (q - r) + s \* (p % r);

q = (p / q) + (s % p) - (r \* q);

cout << result << " " << q;

return 0;

}  
  
  
**Q2: Write output of the following cpp code:**

int main() {

int x = 123456;

unsigned int y = x;

cout << y << endl;

return 0;

}

Solution : 123456

**Q3:**

Write a cpp program to set the bit at the kth position in a given number n.

#include <iostream>

using namespace std;

int main() {

    int n, k;

    cout << "Enter the number (n): ";

    cin >> n;

    cout << "Enter the bit position to set (k): ";

    cin >> k;

    int result = n | (1 << k);

    cout << "The number after setting the " << k << "th bit is: " << result << endl;

    return 0;

}