

Program: B.Sc. in CSE
Mid-Term Examination, Spring 2024
Course Title: Structured Programming Language
Course Code: CSE 0613111

Marks: 20

Time: 1 Hour

(Answer all questions.)

1. a) Write about the main function and explain why it is necessary for C programming. [02]

b) Explain which of these identifiers are correct. [04]

- i. variables_2
- ii. hello_bellow
- iii. Hi2
- iv. 3_Turbo
- v. -Var
- vi. Oppo62
- vii. Ga!axy

c) Find out the error/s (if any) of the given C program and write the output by correcting it. [04]

```
#include <stdio.h>
int main() {
    int number1, number2;
    number1 = X, number2 = Y;
    // Here, X = last digit of your roll, Y = first digit of your roll

    if (number1 >= number2)
    {
        if (number1 == number2) {
            printf("Result: %d = %d", number1, number2);
        }
        else {
            printf("Result: %d > %d", number1, number2);
        }
    }
    else
    {
        printf("Result: %d < %d", number1, number2);
    }
    return 0;
}
```

2. a) Explain why C is called a case-sensitive language with proper examples. [02]

b) Find the value of the variable **c** from each of the following statements when "int a = last digit of your roll number, b = 5, c = 0" [04]

- i. `c = a%b;`
- ii. `c += b;`
- iii. `c = (a == b) && (b > 5);`
- iv. `c = ++a + b++;`

c) Write this code by using the ternary operator. [04]

```
#include<stdio.h>
int main()
{
    int firstValue, secondValue, maxValue;
    scanf ("%d %d," &firstValue, &secondValue);
    if (firstValue >= secondValue)
        maxValue = firstValue;
    else
        maxValue = secondValue;
    printf(" The maximum value is %d", maxValue);
}
```