Total no. of pages 1   Roll no..........

IInd SEMESTER -B. Tech.

Mid-SEMESTER EXAMINATION, May, 2023

Course Code – FCCS002

Course Title – Computer Programming

Time – 1 Hr 30 Mins   Max. Marks – 15

Note – Attempt all questions. Missing data/information (if any), may be suitably assumed & mentioned in the answer.

Q. No	Questions	Marks	CO
1a	Explain basic data types with their sizes?	1.5 M	CO1
1b	Differentiate between pretest and post test loop?	1.5 M	CO1,CO4
2a	Define pointer? Discuss the programming application of pointers?	1.5 M	CO1,CO4
2b	Differentiate between structure and union?	1.5 M	CO1
3a	What are the purpose of continue and break statement with the help of example?	1.5 M	CO1,CO4
3b	What is a string? What is use of null character in string?	1.5 M	CO1

4a	Predict the output after the following program executes?
	#include<stdio.h>
	int main()
	{
	int num1=10,num2=5,num3=num1--;
	int num4=++num1 + num2++ + num3++;
	printf("output is: %d,%d,%d,%d ", num1,num2,num3,num4);
	return 0;
	}
		1 M	CO3

4b	Predict the output after the following program executes?
	#include <stdio.h>
	int main() {
	    int a = 12, b = -8;
	    printf("Output = %d, %d, %d, %d", (a | b),a>>2,b<<2,(~b));
	    return 0;
	}
		1 M	CO3

5a	Write a c program to print the digits in reverse order from a user defined given integer number? (for example : user input 4689 output will be 9864) (Note: write the complete c program syntax properly. Program should ask for runtime input value.)	2 M	CO3
5b	Write a C program, Given integer numbers N, find all factors of it.? (For example: user Input: 12 Output factors of 12 are 1 2 3 4 6 12) (Note: write the complete c program syntax properly. Program should ask for runtime input value.)	2 M	CO3