CAMBRIDGE INSTITUTE OF TECHNOLOGY

K.R. PURAM, BENGALURU-560036

Department of Computer Science and Engineering

Program: B.E. ■   M.Tech. ☐   Specialization:

Second Internal Assessment - Even Semester 2018-19

Sub. Name: C Programming for Problem Solving   Sub. Code: 18CPS23   Semester: II

Date: 13-05-2019   Time: 2:30 PM   Duration: 90 Minutes   Max. Marks: 30

[Instructions: Answer any two full questions as indicated below]

Sl. No.		QUESTIONS	COs	RBT Levels	Marks
1.	a)	What is the syntax of the jumping statement **break** within loops in C language?	CO2	L1	02M
	b)	Explain in detail the elements of a user defined function with suitable example.	CO4	L2	06M
	c)	Write a C program to display the binomial coefficient of given n and r value.	CO2	L3	07M
		OR			
2.	a)	List the advantages and disadvantages of binary search.	CO2	L1	02M
	b)	Write a C program for the following: i) To check if a given number is prime or not ii) To find GCD of 2 numbers using Euclid's method.	CO4	L2	06M
	c)	Write a C program to print the factorial of a given number.	CO2	L3	07M
3.	a)	What is a one dimensional array?	CO3	L1	02M
	b)	Explain the declaration and initialization of two dimensional (2–D) arrays with examples.	CO3	L2	06M
	c)	Write a C program to sort a given set of n elements using bubble sort.	CO3	L3	07M
		OR			
4.	a)	Draw the memory layout of two dimensional array **int a[3][2]** by considering the starting address as 8000.	CO3	L1	02M
	b)	Explain the following string handling functions with syntax and example: i) strcat( ) ii) strncmp( ) iii) strncpy( ).	CO3	L2	06M
	c)	Write a C program to find the length of the string without using string handling functions.	CO3	L3	07M

--------------------------END--------------------------