Reg.No:

SNS College of Technology, Coimbatore-35.
(Autonomous)
B.E/B.Tech- Internal Assessment -II
Academic Year 2023-2024(EVEN)
Second Semester (Regulation R2023)
COMPUTER SCIENCE AND ENGINEERING
23ITT101 – PROGRAMMING IN C AND DATA STRUCTURES

B

Time: 1¹ᐟ² Hours   **Maximum Marks: 50**
Answer All Questions

PART A — (5 x 2 = 10 Marks)

1.	Define function and its types of arguments.	CO2	REM
2.	Write the syntax for function declaration. Give an example.	CO2	APP
3.	Differentiate array and structure.	CO3	ANA
4.	Define data structure.	CO3	UND
5.	List out the types of Data structures	CO3	REM

PART B — (2 x 13 = 26 Marks & 1 x 14 = 14 Marks)

6. (a)	Write a C program to add 2 numbers by using with argument with return type method and with argument, without return type method	CO2	APP	13
	(OR)			
(b)	Write a C Program to Search a given number in the given array.	CO2	APP	13
7. (a)	Explain briefly about the concept of one dimensional array with declaration and initialization with an example	CO3	UND	13
	(OR)			
(b)	Given an array of size 5, the task is to sort this array in ascending order in C.	CO3	APP	13
	Example: Input: arr[] ={63, 23,14, 12, 9}			
	Output: {9,12,14, 23,63}			
8. (a)	Construct the c program for swapping 2 numbers with temporary variable using call by reference method with sample output	CO2	APP	14
	(OR)			
(b)	Construct a program to display students name, mark for 5 subjects, average of marks and grade using structure	CO3	APP	14

****

(Note: Und-Understand   Rem-Remember   Ana-Analyze App-Apply)