Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Supplementary Examinations August-2021
C AND DATA STRUCTURES
(Common to CSE & CSIT)

Time: 3 hours　　　　　　　　　　　　　　　　　　　　　　Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	a	What is the purpose of a printf() and scanf() statements? Give Syntax and examples	8M
	b	Explain the general form of a C program with an example	4M

OR

2	Explain decision statements in C along with syntax and examples	12M

UNIT-II

3	a	Write a program for finding the largest number in an array.	6M
	b	What is recursion? What are the advantages and disadvantages of recursion?	6M

OR

4	a	Explain about various categories of functions with examples	8M
	b	Write a C program using function to exchange two numbers using pointers.	4M

UNIT-III

5	a	How do you define structure within a structure? Explain with an example.	6M
	b	Explain pointers and arrays with example.	6M

OR

6	a	Write a C program to read and display multiple strings using pointers.	6M
	b	Define pointer. How to pass a pointer to a function? Explain.	6M

UNIT-IV

7	Write a program to perform basic operations on queue.	12M

OR

8	a	What are the advantages and disadvantages of stack?	5M
	b	List out the applications of queue and explain with an example	7M

UNIT-V

9	a	What do you mean by Searching? Explain binary search with suitable example.	8M
	b	Explain the applications of linked lists	4M

OR

10		What is meant by sorting? Write the algorithm for insertion sort and illustrate with an example	12M

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