R18

Q.P. Code: 18CS0501

Reg. No:

## SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

## B.Tech I Year II Semester Supplementary Examinations July-2021 PROGRAMMING FOR PROBLEM SOLVING

		(Common to ECE, CSE & CSIT)	
Tin	ne:		Marks: 60
		PART-A	
		(Answer all the Questions $5 \times 2 = 10$ Marks)	
1	a	What is format specifier?	<b>2M</b>
	b	Differentiate between break and continue.	2M
	c	What is recursion?	2M
	d	What is pointer arithmetic?	, 2M
	e	Define Union.	2M
		PART-B	
		(Answer all Five Units $5 \times 10 = 50$ Marks)	
		UNIT-I	
2	a	Define algorithm. Write algorithm for finding factorial of a number.	5M
	b	What is flowchart? Explain different symbols used for flowchart.	5M
		OR	
3	a	What is constant? Explain different constants in C.	5 <b>M</b>
	b	What is variable? Give the rules for variable declaration.	5M
		UNIT-II	
4	a	Write and explain about switch statement.	5M
		Write a Program to perform arithmetic operations using switch.	5 <b>M</b>
		OR	
5	a	Write a program to find sum of the individual digits of a given number.	5M
		How does nested if-else works? Explain with an example.	5M
		UNIT-III	
6	9	Discuss about the different categories of functions.	5M
U		Write a C program to illustrate call-by-value parameter passing technique.	5M
		OR	
7	a	How to declare and initialize a Two-dimensional array? Discuss with examples.	6M
	b		4M
		UNIT-IV	
8	9	What are the features of pointers? Write a C program to print address of a variable.	6M
O		Write a C program to show that pointer of any data type occupies same space.	4M
	D	OR	11/1
9	0	Explain declaration and initialization of array of strings.	5M
,	a h		5M
	b	UNIT-V	311
10	a	Define Structure and write the general syntax for declaring and accessing members.	5M
		How to copy and compare structure variables? Illustrate with example.	5M
		OR	
11	N	rite the syntax for opening a file with various modes and closing a file.	10M