(	Q.P. Code: 20CS0501		
I	Reg. No:		
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUT (AUTONOMOUS) B.Tech I Year II Semester Regular & Supplementary Examinations Octo C PROGRAMMING AND DATA STRUCTURES		22
	(Common to ME, EEE & ECE)		
Т		x. Mar	ks: 60
	(Answer all Five Units $5 \times 12 = 60$ Marks)		
	UNIT-I		
1	a Describe the Structure of C Program with neat diagram.	L2	6M
	<b>b</b> Define a Variable. What are the rules for declaring a variable?	L4	<b>6M</b>
2	OR Examine with examples of different decision statements in C	ТА	1034
4	Examine with examples of different decision statements in C.	L4	12M
3	Determine various types of Arrays with examples. OR	L5	12M
4	Define String. Explain the different string handling functions with example.	L4	12M
5	<b>a</b> What is a pointer? What are the features of pointers? Write a C program to print address of a variable.	L1	6M
	<ul><li>b Explain the concept of pointer to pointers with examples.</li><li>OR</li></ul>	L5	6M
6	<b>a</b> Define union and give the general syntax for union. Write suitable example program.	L3	6M
	<b>b</b> How to declare and initialize a structure? Mention with example.	L2	6M
7	What are the advantages and disadvantages of stack? Write a program to illustrate stack operations.	L3	12M
	OR		
8	Explain briefly about various types of linked lists with suitable examples.	L3	12M
9	What is meant by sorting? Write the algorithm for selection sort and illustrate with an example.	L3	12M
	OR		
10	What do you mean by Searching? Explain sequential search and binary search with suitable example.	L3	12M
	*** END ***		

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