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322354(22)

B. E. (Third Semester) Examination, April-May 2021

(New Scheme)

(CSE Engg. Branch)

PROBLEM SOLVING & LOGIC BUILDING using C

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and carries 2 marks.

Any two may be attempted out of parts (b), (c) and (d). Each part is of 7 marks.

Unit-I

1. (a) Define: Algorithm, flowchart.

2

	[2]		[3]	
(b)	Explain the relational and logical operators and		Unit-III	
	conditional operator with example.	7	3. (a) What is an array? Explain.	2
, -	Explain the datatypes used in C language. Explain the following:	7 7	Constitution of the state of th	7
(ii) Variable	(ii) Variable		(c) What are the storage classes available in C? Explain. (d) Explain any three types of categories of functions.	7
	(iii) Keyword (iv) Identifiers		Unit-IV	
	Unit-II		4. (a) Define : Pointer.(b) Explain the functionality of "malloc ()" and "calloc	2
2. (a) Write down the difference between who while loop.	Write down the difference between while and do-	2		7
	Explain in detail the working of "break" and "continue" with example.	7		7
	Write a program to find the smallest and the greatest	,	(d) Explain the concept of character pointers and pointers to pointers.	7
	element in the array. (Assume array size: 10). Write a program to demonstrate the use of nested	7	Unit-V	
(u)	Write a program to demonstrate the use of nested-if-else.	7	5. (a) Write down the difference between structure and union.	2

(b) Write a program in C to copy contents of one file	
to another file.	7
(c) Explain structure within structure with the help of	
example.	7
(d) Describe in brief the use of union and typedef.	7
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