Roll No	

24032

B. Tech. 3rd Semester (CS & IT) Examination – March, 2021

DATA STRUCTURE USING 'C'

Paper: CSE-201-F

Time: Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Write short note on following:

20

- (i) Structures
- (ii) Pointer
- (iii) Graph
- (iv) Skip list

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UNIT - I

2.	Define Algorithm. Describe how to design develop an Algorithm. Also explain complexity algorithms.	
3.	Explain the following:	20
	(i) Merge Sort	
	(ii) Application of Queues	
	UNIT – II	
4.	Explain the following:	20
	(i) Dynamic Allocation	
	(ii) Array of Pointers	
5.	Give a complete description about Linked Lists.	20
	UNIT – III	
6.	Define Binary Tree. Explain its types, Also desc traversing of Binary Trees.	ribe 20
7.	(i) What are the different ways to represent graph?	t a 10
	(ii) Describe different types of operations on graph	.10
	UNIT – IV	
8.	Define file. Describe different types of operations files. Also describe about file handling.	on 20
9.	Describe the following:	20
	(i) Applications of Lots	
	(ii) Skip Lists	
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