

Roll No.

24032

B. Tech. 3rd Sem. (Elec. & Comm. Engg.)

Examination – December, 2012

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 complain in this regard, will be entertained after examination.

Note : Attempt any five questions by selecting at least one question from each Unit and Q. No. 1 is compulsory. All questions carry equal marks.

1. Write Short Notes on : 20

- (a) Priority Queues
- (b) Dynamic Allocation
- (c) Tree Reversal
- (d) File organization

24032-14,400-(P-3)(Q-9) (12)

P. T. O.

UNIT – I

2. (a) Write Reverse algorithm for binary search. 10
- (b) What do you mean by Data Structure ? Describe different types of Data Structure ? 10
3. What is "stack". How s stack can be represented in memory ? Also describe various application of stack. 20

UNIT – II

4. Write an algorithm to insert and delete an element from double linked list. 20
5. Give linked implementation of queues. 20

UNIT – III

6. (a) Explain threaded binary trees in detail. 10
- (b) Explain the concept of B Trees in detail. 10
7. What is Graph ? Give Set, Linked and matrix representation of graphs. 20

UNIT – IV

8. How file can be managed in C ? Explain with example. 20
9. Write short notes on : 20
- (a) AVL Trees
 - (b) Skip Lists