

(DEC 216)

B. Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the end of Second Year)

ELECTRONICS & COMMUNICATIONS

Paper - VI : Data Structures Using C

Time : 3 Hours

Maximum Marks : 75

Answer question No. 1 compulsory

(15 x 1 = 15)

Answer ONE question from each unit

(4 x 15 = 60)

1) Write short notes on :

- a) Bubble sort
- b) Queues
- c) Linear Search
- d) B-Tree
- e) Stack applications

Unit – I

2) Write a suitable program to explain the list operations and their implementation using arrays.

OR

3) Explain :

- a) Single linked list
- b) Double linked list

Unit – II

4) Write a program to show the implementation of a stack using linked list.

OR

5) Explain the applications of a Queue.

Unit – III

6) Discuss Quick Sort with example.

OR

7) Differentiate selection sort and insertion sort.

Unit – IV

8) Explain the hashing methods and applications.

OR

9) Explain in detail about AVL-Trees.

