DIRECTORATE OF DISTANCE EDUCATION ALAGAPPA UNIVERSITY, KARAIKUDI

INTERNAL ASSESSMENT (Academic Year 2018-19 On wards)

Programme Code	130
Programme Name	B. Sc (Computer Science) & Lateral

III SEMESTER ASSIGNMENT/PRACTICAL QUESTIONS

Paper Code : 13033/13233	Maximum Marks: 25

Paper Title : Data Structures and Algorithms

1. Write some points of differences between linear and non-linear data structures.

- 2. What do you mean by time and space complexity of algorithms?
- 3. Describe the memory representation of a two-dimensional array.
- 4. State and explain an algorithm to convert an expression from infix notation to prefix notation.
- 5. Explain about Insertion sort with an algorithm and examples.

Paper Code : 13034/13234 Maximum Marks: 25

Paper Title : LAB – Data Structures and Algorithms

- 1. Write a C++ program for implement singly linked list.
- 2. Write a C++ program for Insertion, Deletion and Traversal in Binary Search Tree.
- 3. Write a C++ program to merge two sorted linked lists
- 4. Program for Kruskal's algorithm to find Minimum Spanning Tree of a given connected, undirected and weighted graph.
- 5. Prepare a C++ program for Merge Sort.