SUBJECT: DATA STRUCTURE

F.M. : 20
TIME: 45 mins.

_____

A) Answer any five questions: (1x5=5)

1. The logical and mathematical model of a particular organization of data is called _____.

2. LIFO stands for_____.

3. FIFO stands for_____.

4. BST stands for _____.

5. ADT stands for _____ .

6. Time complexity of bubble sort in worst case. _____ .

B) Answer any ONE question: (1x10=10)

1. What do you mean by Array? Explain the difference between Linear and Non Linear data structure? What do you mean be Data Structure? Explain. (3+4+3)

2. What is an Algorithm? Define Big Oh ,omega, theta. Define Flowchart. [10]

C) Write a short note on the following. (Any Two)[2 x $2\frac{1}{2}$ =5]

   i. Bubble Sort
   ii. Stack.
   iii. Binary Tree.
   iv. Linked list