

2011

*Full Marks : 75**Time : 3 hours**Candidate are required to give their answerse**In their own words as far as practicable**The figues in the margin indicate full marks.**Question are of equal value**Answer any five questions*

1. What do you mean by algorithms & flow charts ? Discuss the complexity of algorithm ?
2. Trams form the following in Fixexpression into post fix notation .
 (a) $5 * X^3 + 3 * (X - 11)$ (b) $2 * (a + b) - 7 * (c + d)$
3. What do you mean by linked list ? Discuss its advantage over array ? Write an algorithm to insert an item in the singly linked list.
4. What are the application of stack ? Discuss infix, postfix and prefix notation ? With example ?
5. Discuss doubly linked list & circular linked list with necessary algorithm.
6. Explain traversal of binary tree inorder, pre order & post order ? Also discuss application of binary tree ?
7. (a) Explain the process of searching ? What is the advantage of binary search over selection search ?
 (b) Write the algorithm for bubble sort.
8. What is Graph ? Discuss the terminology of graph ? Also explain Depth first search ?

9. **What do you mean by Auto CAD ? Explain the features of Auto CAD in detail ?**

10. **Write short notes on any three :**

i) **Circular queue** (ii) **Radix sort** (iii) **Hash Table**

iv) **Recursion** (V) **High Balanced Tree.**



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