UNIT - II

- 2 (a) Write an algorithm for multiplication of two polynomials.
 - (b) Write an algorithm for conversion of infix expression to prefix expression and give prefix form for (A * B + (C/D) E).

8+8

OR

- 2 (a) Write an algorithm for transpose and multiplication of sparse matrices.
 - (b) Write an algorithm for dequeue and circular queue.

8+8

UNIT - III

3 (a) Write short notes on:

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- (i) Header Linked list
- (ii) Implementation of linked list in memory.
- (b) Write an algorithm to add two polynomials using Doubly Linked List.

8+8

OR

- 3 (a) Write an algorithm for adding and deleting nodes from an ascending order linked list.
 - (b) Write an algorithm for binary search. Calculate its time complexity also.

8+8

UNIT - IV

- 4 (a) What is general true? How will you implement it in memory?
 - (b) What is AVL tree? Insert the following numbers into an AVL tree:

28, 73, 85, 74, 72, 13, 11, 6

8+8

OR

3E2073

[Contd... A&

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