

SECTION-B

2. Explain how stack is applied for evaluating an arithmetic expression.
3. Write an algorithm to insert an element at the specific position in an array.
4. Write an algorithm to find minimum and maximum element from a binary search tree.
5. How queues are represented in memory? Write their applications.
6. Write an algorithm for Binary search. What are its limitations?

SECTION-C

7.
 - a) Write an algorithm to insert new node at the end of a Doubly Linked List.
 - b) Convert the given Infix expression to Postfix expression using Stack and show the details of Stack at each step of conversion.

Expression : $(a - b^c * d) * (e - f / g)$.

Note : ^ indicates exponent operator.

8. What are the tree traversal techniques? Explain each with an example.
9. Write short note on :
 - a) Quick sort
 - b) AVL Trees