**DATA STRUCTURES AND ALGORITHMS**

**IMPORTANT QUESTIONS**

1. What is an Algorithm and its specifications?
2. What is pattern matching?
3. What is an string?
4. What is sparse matrix and show its representation with an example.
5. what is recursion explain with an example?
6. **Discuss about 1-D and 2-D Arrays and their memory representation**
7. Explain about stack ,its operations with a program
8. Explain about queues ,its operations with a program
9. briefly explain the circular queue with its representation
10. Mention the algorithm for conversion of infix to postfix expression and

convert the below infix expression to postfix expression **A \* B- (C + D) + E**

1. Write the algorithim for evaluation of post fix expression with an example
2. Applications of stack
3. Applications of queues.