UNIT - 2	
Part – A (Short Answer Questions)	
1	**Define** Stack**.**
2	**List** the applications of stack
3	**Define** Queue**.**
4	**List** the applications of queue
5	**Differentiate** Stack and Queue
6	**List** out the basic operations that can be performed on a stack and queue
7	**List** the different types of queues
8	**Define** Circular Queue
9	**List** the operations that can be performed on Circular Queue
10	**Define** Circular Queue full condition
11	**Define** DEQUEUE
12	**List** the operations that can be performed on DEQUEUE
13	**State** the different ways of representing expressions
14	**State** the rules to be followed during infix to postfix conversions
15	**Convert** the infix expression (a+b)-(c*d) into post fix form
16	**List** how Stacks and Queues are represented in data structure
17	**Discuss** which data structure used in recursion
18	**Explain** the difference between stack implementation using array and linked list
19	**Write** the necessity of infix to post fix conversion
20	**Write** the Dequeue empty condition
Part - B (Long Answer Questions)	
1	**Write** an algorithm for basic operations on Stack
2	**Explain** the procedure to evaluate postfix expression
3	**Evaluate** the following postfix expression: 6 2 3 + - 3 8 2 / + * 2 | 3 +
4	**Explain** the procedure to convert infix expression into postfix expression
5	**Convert the following expression A + (B * C) - ((D * E + F) / G) into post form.**
6	**Explain the operations on simple Queue**
7	**Write an algorithm for basic operations on circular queue**
8	**Explain DEQUEUE and its operations**
9	**Implement a queue using two stacks.**
10	**Implement a Circular queue of integer of user specified size and write the functions for intilize () enque () and deque()**
Part – C (Problem Solving and Critical Thinking)	
1	**Convert** the expression ((A + B) * C - (D - E) ^ (F + G)) into equivalent Postfix notation.
2	**Transform** the following expression to postfix expression using stacks. (a+b)*((d-e)+f)
3	**Convert** infix expression into its equivalent post fix expression A*(B+D)/E-F*(G+H/K)

4	**Transform** the following expression to postfix expression using stacks. (A+B)*(C$(D-E)+F)-G
5	**Write** a C program that uses stack operations to convert a given infix expression into its postfix Equivalent.
6	**Evaluate** the postfix expression 6 2 3 + - 3 8 2 / + * 2 $ 3 +
7	**Evaluate** the postfix expression 1 2 + 3 * 6 + 2 3 + /
8	**Evaluate** the postfix expression 10 2 8 * + 3 - 1 2 3 * + -
9	**Write** C programs to implement stack using Arrays
10	**Write** C programs to implement stack using Linked List
11	**Write** C programs to implement queue using Arrays
12	**Write** C programs to implement queue using Linked List
13	Write an algorithm for basic operations on simple queue