

Shri Vile Parle Kelavani Mandal's
SHRI BHAGUBHAI MAFATLAL POLYTECHNIC
Periodic Test 2 QB

Course: Data Structure **Program: CSE**
Course Code: DST238914 **Semester: IIDIVA**
Term: June2025-Dec2025

Unit 3 CO3

1. Circular Queue
2. Double Ended Queue
3. Priority queue

Uni4 QB Dynamic Linear Data Structure Linked List CO4

All answers are expected with diagram representation and example

5. Algorithm for traversing a singly linked list (with diagram)
6. Algorithm for inserting a new node in a singly linked list (with diagram)(beginning ,end ,before a node ,after a node)
7. Algorithm for deleting a node in a singly linked list (with diagram)(beginning ,end)
8. Header linked list and its classifications with memory representation.
9. Doubly Linked List and its memory Representation.

Unit 5 Non Linear Data Structure CO5

All answers are expected with diagram representation and example

11. Properties of tree and terms related to tree
12. Properties of Binary tree
13. Algorithm for tree traversal (post order pre order in order)
14. Numerical problem on tree traversal
15. Sequential representation of graph
16. Linked list representation of graph
17. Numerical problem on Sequential representation of graph
18. Numerical problem on Linked list representation of graph
19. BFS of a graph

- 20 DFS of a graph
- 21 Representation of tree in memory (sequential, linked)
- 22. Basic terminologies of graph Properties of Graph
- 23. Properties of Binary search tree
- 24 Numerical problem on binary search tree
- 25. Height balanced and weight balanced tree
- 26. Complete Binary Tree

/**

***/