



GTU SEM 3 (IMP)

Subject Code:BE03000081

DATA STRUCTURE

45+ Marks Confirm

*"Stack will
definitely come!"*

GTU Data Structures (DS)

SPECIALLY SEM 3

First Session: Must Prepare

Theory Questions (7 marks each):

1. Stack Operations (PUSH, POP, PEEP)
(GUARANTEED!)
2. Queue Operations (INSERT, DELETE, DISPLAY)
3. Binary Search Tree Construction
4. Infix to Postfix Conversion
5. Linked List Operations (Singly)
6. Binary Tree Construction from Traversals
7. Hashing & Collision Resolution
8. Minimum Spanning Tree (Prim's/Kruskal's)

Short Questions (3-4 marks):

9. Primitive vs Non-Primitive Data Structures
10. Time Complexity & Asymptotic Notation
11. Doubly Linked List (Insert/Delete Algorithm)
12. BFS vs DFS
13. Quick Sort
14. Bubble Sort
15. AVL Tree

Created By 7061

Second Session: Very Important

- 16. Priority Queue & Circular Queue
- 17. Tower of Hanoi
- 18. Binary Search
- 19. File Organization
- 20. Dijkstra's Shortest Path
- 21. Insertion Sort
- 22. Merge Sort
- 23. Selection Sort
- 24. Sparse Matrix
- 25. Static vs Dynamic Memory Allocation



ALL THE BEST

THANK YOU

Analysis by Kirit (Topper Strategy)