Q1] What is data structure ? Explain diffrent types of data structure ?

OR

Explain in details primitive data structures?

stack

Q2] What is ADT ? Explain Stack ADT ?

Q3] What is stack ? Explain , How to impliment stack using link list ?

Q4] What is stack ? Explain push & pop algorithm Explain with eg ?

Q5] Write a algorithm infix to postfix conversion with example using stack ?

Q6] Diffrence between linear & NON-linear Data structure

Linked list

Q7] What is linked list ? Explain the types ?

OR

★ diffrence between singly linked list & doubly linked list

Queue

Q8] What is queue ? Explain linear queue and Write insert & delete algorithm ?

Q9] What is double ended queue ?

Q10] What is priority of Queue & Write algorith.

Q11] Diffrence between stack & queue

Q11] What is queue? Explain types?

Array

Q12] What is Array? Array represnatation?

OR

What is Array? Explain storage structure Array?

Q13] ~~strikethrough~~ Write algorithm to insert & delete node on first position from signily linked-list

OR

Write a algorithm to add node on last position from doubly linked list

Tree

Q14] What is AVL tree? Explain it's rotation?

Q15] What is tree traversal? Write Inorder postorder, Preorder traversal for given tree?

Q16] What is spanning tree? Explain 'Kruskal's' algorithm with example?

✱ Q17] What is binary search? Explain binary search algorithm :-

Q18] What is Analysis of algorithm & Explain time & space complexity?

✱ Q19] What is graph? How graph represented using data structure? Explain with example?

☆ 20] Explain DFS & suitable example?

or

Explain DFS & suitable example?

☆ 21] Write & algorithm of Quik sort &

☆ 22] What is bubble sort & trace the given data using bubble sort?