

Important Question's

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BLOCK 1

Ques. 1 What are data Structure and its importance and its feature ?

Ques. 2 What is Algorithms and notation and calculate complexity ?

Ques. 3 Explain Array (2D) or pointer with an example

Ques. 4 Draw a Sparse matrices Make 3-tuple representation of non-zero elements using a matrix ?

Ques. 5 Define Singly linked list using the array and write the algorithms ?

- Insertion and deletion

Ques. 6 Define Double linked list using the array and write the algorithms ?

- Insertion and deletion



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BLOCK 2

Ques. 1 Explain is BST (Binary Search Tree) ?

Ques. 2 Define Avl tree and its possibility and rotation of AVL tree ?

Ques. 3 Explain SPA(Shortest path Algorithms)

Ques. 4 Make the graph of Dijkstra's Algorithms with example ?

Ques. 5 Explain the MCST(Minimum Cost Spanning trees) graph with example ?

Ques. 6 Write down the steps of Krushal's Algorithm with example ?

Ques. 7 Write each steps of Prim's Algorithm with example ?

Ques. 8 Explain the BFS (Breadth-first Search) ?

Ques. 9 Explain DFS (Depth First Search) with the help of algorithm ?

Ques. 10 Write the difference between BFS and DFS ?

Ques. 11 Define linear search and its algorithms and find its complexity ?

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BLOCK 3

Ques. 1 Define stack and write an algorithm to implement the stack through the linked list and delete an item from it and algorithm/function ?

Ques. 2 Perform push and pop operation in a stack ?

Ques. 3 Define circular queue and algorithms for insertion and deletion in a circular queue ?

Ques. 4 Converting a tree into a binary tree ?

Ques. 5 Traversals and Constructs a binary tree using (in-order, pre-order, post-order) ?

Ques. 6 Algorithms of recursive and non-recursive function implementation in a binary tree (in-order, pre-order, post-order) ?

BLOCK 4

Ques. 1 Define Singly linked list using the array and write the algorithms ?

- Insertion sort
- bubble sort
- Quick sort
- heap sort



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BLOCK 4

Ques. 2 What is Splay Trees ?

Ques. 3 Explain the Properties of Red-black Tree ?

Ques. 4 Explain the file organization ?

Ques. 5 Difference between direct file organization and indexed sequential file organisation ?

Some important topics

- What is use of Infix, Prefix, Postfix expression and its notation
- Explain the Harsh function



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