

Data Structures with Competitive Coding (Imp. Questions)

(1) Module-1:

(a) Asymptotic Notation.

(b) Complexity Analysis - Time & Space (Searching & Sorting).

(2) Module-2:

(a) Array Address Calculation - 1D & 2D.

(b) Array operations.

(c) Sparse Matrix.

(d) SLL & DLL. (e) Polynomial operations.

(3) Module-3:

(a) Stack operations

(b) Prefix/Postfix Conversion.

(c) Prefix/postfix Evaluation.

(d) Circular Queue.

(e) Double-Ended/Priority Queue.

(f) Linked stack/linked Queue.

(4) Module-4:

(a) Tree Traversal (Pre, In, Post)

(b) Binary Tree Construction from tree Traversal.

(c) BST.

(d) Threaded Binary Tree

(e) AVL.

(f) Heaptree.

(5) Module-5

(a) BFS/DFS

(b) Warshall's/Floyd's.

(6) Module-6

(a) Hashing techniques & Collision-Resolution.

(b) Heap sort (Max-Heap & Minheap)

(7) Module-7

(a) Binary Search

(b) Quick/Merge/Radix