

SCHAUM'S Outlines

Chapter - 3

Page - 3.20 (3.8), 3.21, 3.23 (ex-3.11), 3.24, 3.25 (ex-3.12)

example - 3.16, 3.18, (3.19, - 3.21)

Chapter - 4

Array - advantages, disadvantages

(Insert, delete, search, Merge) → Linear Array
sort → Insertion, Selection, Bubble

Algorithm 5T2

Page - 4.2 (example - 4.1, 4.2), 4.6 (4.4), 4.8 (4.5), 4.16 (ex-4.8)
4.25 (ex-4.10), 4.27 (4.10), (4.30 - 4.32), (example - 4.19), 4.60 (4.17),
4.69 (ex-4.9)

Chapter - 5

Linked list → Advantages/disadvantages

Traversing, ~~sort~~ Searching (sorted, unsorted)

Insert, delete, Garbage collection, overflow,

Any position (AT) item can Delete/insert etc,

Given node " " " " " " " " " " " "

circular → Linked list } Basic
2A

Doubly → Linked list

Header

Page - 5.76 (supplementary problems → 5.1, 5.2)

chapter-6

Stack \rightarrow main concept
push/pop \rightarrow

Arithmetic expression,
postfix, Infix prefix \rightarrow Basic

Recursion, Ackermann, Towers of Hanoi

page - 6.2 (ex-6.1), 6.21 (ex-6.7), (6.39 - 6.43), 6.52 (ex-6.11)

Queue \rightarrow Insert, delete,
circular Queue concept

DEQUES \rightarrow Basic, Math

page - 6.78, 6.79 (ex-6.15), 6.86 (ex-6.16)

6.101 \rightarrow Solved problems (6.1, 6.3, 6.10, 6.16, 6.18,

6.22, 6.24

chapter-7

Book \rightarrow (Samanta)

Full Binary tree
complete " "

properties of Binary trees

page - 2.19, ex-7.1,

Linear representation of Binary trees

post order \rightarrow 2.39

pre order

Shadows \rightarrow 7.9, 7.10, 7.11

Binary Search Tree

Insert, delete

Heap tree, \rightarrow Insert, delete

Max, Min heap ~~but~~ build ~~or~~

Application of heap tree

AVL tree

Chapter-8

Graph - ~~to~~, Multi Graph, Indegree, Outdegree

page - 8.1-8.4, 8.6 (ex-8.3)

Chapter-9

page - (9.6-9.14)