



Reg. No.

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BCACACN 202

**Second Semester B.C.A. Degree Examination, July/August 2023
(NEP 2020) (2021 – 22 Batch Onwards)
DATA STRUCTURES USING C (DSCC)**

Time : 2 Hours

Max. Marks : 60

Note : Answer any six questions from Part – A and one full question from each Unit in Part – B.

PART – A

1. a) Define linear data structure. Give an example. (6×2=12)
- b) Consider the linear array AA(5:50). Find the number of elements in an array.
- c) What is sparse matrix ? Give example.
- d) Write one advantage and disadvantage of binary search.
- e) What is Linked List ? List the different types.
- f) Write the algorithm for POP operation in Stack using array.
- g) Define the terms with respect to tree :
 - i) leaf node
 - ii) depth of a tree.
- h) Define adjacency matrix.

PART – B

Unit – I

2. a) Write the classification of data structure and briefly explain it.
- b) Write an algorithm for Bubble sort.
- c) Explain the selection logic with example. (4+4+4)
3. a) Explain the representation of two dimensional array in memory.
- b) Trace the following list of numbers using selection sort technique :
77, 33, 44, 11, 88, 22, 66, 55. (6+6)

P.T.O.

Bca Data Structure Notes In 2nd Sem

Yan Bai



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Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Bca Data Structure Notes In 2nd Sem**

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