



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 3rd Semester Examination, 2022

CC5-COMPUTER SCIENCE (31L) (PRACTICAL)

DATA STRUCTURES LAB

Time Allotted: 2 Hours

Full Marks: 20

The figures in the margin indicate full marks.

Answer any *one* question on lottery basis

1. Write a program in C to implement matrix multiplication.

2. Write a program in C to sort a list of elements using Selection sort.

3. Write a program in C to find an item from the list of n numbers using binary search technique.

4. Write a program in C to compute ${}^n C_r$ and ${}^n P_r$ using recursion.

5. Write a program in C to perform different operation on a stack using linked lists.

6. Write a program in C to perform different operations on a queue using array.

7. Write a program in C to perform different operation on a stack using array.

8. Write a program in C to sort a list of elements using Insertion sort.

9. Write a program in C to perform different operation on a queue using linked list.

10. Write a program in C to implement division hash function.

11. Write a program in C to perform insertion, deletion and display of a binary tree using arrays.

12. Write a program in C to convert a sparse matrix into its non-zero form.

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