



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**  
BCA Honours 3rd Semester Examination, 2022

**CC5-BACHELOR OF COMPUTER APPLICATION (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**

**Program Execution : 10**

**Viva : 05**

**Assignment Copy : 05**

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**Total : 20**

1. Write a program in C to search an item from a list using binary search.

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2. WAP in C to sort a list of elements using selection sort.

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3. WAP in C to convert a postfix notation into infix notation.

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4. WAP in C to create a doubly linked list. Also create functions for insertion and deletion from the list.

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5. WAP in C to create a circular linked list. Also create functions for insertion and deletion from the list.

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6. WAP in C to implement a stack. Also create functions from PUSH and POP operations.

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7. WAP in C to scan a polynomial using linked list and add two polynomials.

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8. WAP in C to calculate the factorial of a number using recursion.

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9. WAP in C to find out fibonacci series using iteration.

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10. WAP in C to generate fibonacci series using recursion.

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