2024

COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper: CC-3P

(Data Structure)

Full Marks: 30

SET - 1

Marks Distribution:

Algorithm : 05
Source Code : 10
Output : 05
Laboratory Notebook : 04
Viva voce : 06

Answer any one question.

- 1. Write a menu-driven program in C to perform the following functions on an array, which is given as input by the user
 - (a) Print the second largest number without sorting
 - (b) Display the array in reverse order.
- 2. Write a program in C to transpose a matrix, and print the smallest number (along with its row and column indices).
- 3. Write a program in C to create a singly-linked list, after taking the number of elements as an input from the user. Then perform the following operations using a menu
 - (a) Search for a particular item and print its position (if found)
 - (b) Display the list.

(2)	B(2nd Sm.)-Computer ScH/Pr./CC-3P/CBCS/Set-1
(4)	

4.	Write a program in C to perform merging of two singly-linked list	. The two in	put lists ne	ed to b	be created
	after taking the necessary details from the user.				

- 6. Write a program in C to evaluate a postfix expression.
- 7. Write a program in C to input a list of integers, and sort the list using Bubble Sort.
- 8. Write a program in C to create a Binary Search Tree (BST) and perform in-order traversal in non-recursive manner.