2022

BCA

[HONOURS]

(CBCS)

(B.Sc. Third Semester End Examination-2022)

PAPER-C5P (Practical)

[Data Structure Lab]

Full Marks: 20 ***Time: 02 Hrs***

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Answer any one question **1X15=15**

1. Write a program to implement stack operations using linked list.
2. Write a program to search an element from a list using binary search technique.
3. Write a program to sort a list of elements using selection, sort.
4. Write a program to implement Queue operations using array.
5. Write a program to insert a node at any specified position in a linked list.
6. Write a program to display Fibonacci series using recursion.
7. Write a program to search a node in a Binary search Tree.
8. Write a program to sort list of elements using insertion sort.
9. Write a program to delete the last node from a singly linked list.

10. Write a program to creat a double linked list.
11. Write a program to implement – stack operations using array.
12. Write a program to implement Lower Triangular Matrix using one dimentional array.
13. Write a program to search an element from a list using linear search technique.
14. Write a program to display the nodes in inorder traversal of BST.
15. Write a program to insert a node after a last node of a doubly linked list.
16. Write a program to move all zeros present in the array to the end.
17. Write a program to find square of a number without using multiplication and division operator.
18. Write a program to calculate hight of binary tree with leaf notes forming a circular doubly linked list.
19. Write a programe to find in order successor for given key in a BST.
20. Write a program to remove duplicates from a linked list.

Viva -03

PNB - 02