2019

BCA

2nd Semester Examination

Data Structure Lab

(Set – II)

Paper – 1296

(Practical)

Full Marks – 100

Time : 3 Hours

Answaer any ***two*** questions (on lottery basis) : 25×2

1. Write a program to demonstrate the basic operations of Stack (PUSH,POP).
2. Write a program to implement single link-list and delete data at any position.
3. Write a program to implement a stack and print the elements of stack.
4. Write a program to implement a circular queue and delete a elements from queue.

5. Write a program to sort a list of elements by using bubble sort technique.

6. Write a program to sort a list of elements by using quick sort technique.

7. Write a program to implements Binary tree and traverse the tree IN ORDER.

8. Write a program to search a element from the list by using binary search technique.

9. Write a program to find out the infix notation of the postfix string using stack ab*cd+*e/.

10. Write a program to implement queue using link - list and print the elements of queue.

11. Write a program to reverse a string using stack.

12. Write a program to implement single linked list and insert a node at any position.

13. Write a program to find out the infix of the postfix string using stack

    abc* + dc/h* –

14. Write a program to sort a set of strings in alphabetic order.

15. Write a program to sort the following elements using insertion sort (20, 1, 5, –10, –5) .

16. Write a program to count the number of nodes in a binary search tree.

17. Write a program to find the largest element in a given linked list.

18. Write a program to implement Depth first traversal algorithm.

19. Write a program to search reverse the elements in the stack using recursion.

20. Write a program to an element from a given set of elements using binary search.

Viva –voce : 15 Marks

PNB – 05 Marks

Internal Assessment – 30 marks
