NEW

2018

BCA

2nd Semester Examination

DATA STRUCTURE LAB

PAPER—1296

(Practical)

Full Marks : 100

Time : 3 Hours

The figures in right-hand the margin indicate full marks.

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

Set-I

Answer any *two* Questions (*On Lottery Basis*) 2×25

1. Write a program to find smallest element using linked list.
2. Write a program to demonstrate the basic operation of Stack (PUSH POP).

3. Write a program to Sort Number of element using Babble Sort technique.

4. Write a program to insert and delete a node at any position of a linked list.

5. Write a C program to find out number of vowels and consonant in a string.

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

   abc* + dc/h*–

7. Write a C program to sort a string in alphabetic order.

8. Write a C program to veryfy a string is Palindrome or not using stack.

9. Write a C program to search an element from a list using binary search technique.

10. Write a program to sort the following elements using insertion sort (20, 1, 5, –10, 100).

[PNB = 05, Viva-Voce = 15, IA = 30 Marks]

———

NEW

2018

BCA

2nd Semester Examination

DATA STRUCTURE LAB

PAPER—1296

(Practical)

Full Marks : 100

Time : 3 Hours

The figures in right-hand the margin indicate full marks.

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

Set-II

Answer any *two* Questions (*On Lottery Basis*) 2×25

1. Write a program to reverse a string using Stack.

2. Write a program to implement singly linked list and insert a node at any position.

3. Write a program to search on element from a list using linear search technique.

4. Write a C program to implement stack having following functionalities.

PUSH, POP, DISPLAY.

5. Write a program to sort the following list using Quick sort.

(10, 20, 1, −5, 20)

6. Write a program in C to implement a queue using linked list.

7. Write a program to search an element in a queue.

8. Write a program to sort a list of elements using merge sort technique.

9. Create a BST and Traverse post order.

10. Write a C program using array to add two polynomials

$x^5 + 3x^3 + 2x^2 + 9x + 7$

$x^9 + 7x^4 + 3x^3 + 5x^2 + x + 19$

[PNB = 05, Viva-Voce = 15, IA = 30 Marks]