NEW

2017

BCA

2nd Semester Examination

DATA STRUCTURE LAB

PAPER—1296 (SET-2)

(PRACTICAL)

Full Marks : 100

Time : 3 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer any *two* questions *lottery basis* :   2×25

1. Write a program to find a string is palindrome of not.

25

2. Write a program to convert a decimal number into

(i) Binary number, (ii) Hexadecimal number, (iii) Octal

25

(Turn Over)

3. Write a program to search an element in a singly linked list using recursion. 25

4. Write a program to sort *n* number of elements using Quick Sort Algorithm. . 25

5. Write a program to convert prefix to infix using stack. 25

6. Write a program of string reverse using stack. 25

7. Write a program to modify a node at any position from a circular linked list. 25

8. Write a program to find largest element using linked list. 25

9. Write a program to create a binary search tree form full list. (100, 5, 90, 3, 4, 92) 25

10. Create a BST and Traverse inorder.

Practical Note Book — 05

Viva Voce — 15

Internal Assessment — 30

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