NEW

2015

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 : 2×25

1. Write a program to count the number of occurrences of each element in the linked list.

2. Write a program to find the third largest element in a doubly linked list.

3. Write a program to remove duplicates from a linked list.

4. Write a program to enlist the elements of two linked lists without repeatation. (i.e. Union of two linked lists)

5. Write a program to apply Heap Sort technique.

6. Write a program to sort a set of strings using Selection Sort technique.

7. Write a program to sort a set of integers applying Quick Sort technique.

8. Write a program of priority queue to insert an element.

9. Write a program to convert a decimal number to equivalent binary number using stack.

10. Write a program to search for an element in a doubly linked list.

11. Write a program to create a complete binary tree of n-elements.

12. Write a program to implement infix to postfix conversion.

13. Write a program to convert a given decimal number to its hexadecimal equivalent.

Practical Note Book — 05

Viva Voce — 15

Internal Assessment — 30

———