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(2nd Semester)

BACHELOR OF COMPUTER APPLICATIONS

Paper No. : BCA–203 P

(Data Structure using C)

(Practical)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer *any* **two** questions from Section—A and *any* **one** question from Section—B

SECTION—A

(*Marks* : 30)

1. Write a C program code for sorting from a list of numbers using selection sort.　　15

2. Write the C program code for stack using array and perform the following operations :　　15

   (a) Push an item into a stack

   (b) Pop an item from a stack

   (c) Display the contents of a stack

　　　　　　　　　　(*Turn Over*)

3. Write a C program code to search any given number in an array using binary search. 15

SECTION—B

(*Marks* : 20)

4. Write a C program code for singly linked list and perform the following operations : 20

(a) Create nodes of a list

(b) Insert a node at intermediate position

(c) Delete a node at intermediate position

(d) Display the contents of a list

5. Write a C program code for binary tree and perform the following operations : 20

(a) In-order traversal

(b) Pre-order traversal

(c) Post-order traversal

SECTION—C

(*Marks* : 25)

6. Viva voce. 15

7. Record book. 10

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