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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

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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