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(2nd Semester)

BACHELOR OF COMPUTER APPLICATIONS

Paper No. : BCA–203 P

(Data Structure using C)

(Practical)

(New Course)

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 to insert any random
   integer number and sort them using heap
   sort.   15

2. Write a C program to search a given number
   in an array using linear search.   15

(2)

3. Write a C program of a queue using linked list and perform the following operations :   15

   (a) To insert element into a queue

   (b) To delete elements from a queue

   (c) To display the content of a queue

SECTION—B
(Marks : 20)

4. Write a C program to implement a binary tree traversal operation for inorder, preorder and postorder.   20

5. Write a C program to implement a doubly linked list and provide insertion, deletion and display operation.   20

SECTION—C
(Marks : 25)

6. Viva   15

7. Practical Record   10

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