

**II/BCA/203 P**

**2015**

( 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 to find the total and average of a given array of 5 elements. 15
2. Write a C program to search a given number in an array using Binary Search. 15
3. Write a C program to arrange an element in ascending order using insertion sort. 15

G15—220/384

*( Turn Over )*

SECTION—B

( Marks : 20 )

4. Write a C program to implement stack operation such as PUSH, POP and DISPLAY by using linked list. 20
5. Write a C program to implement singly-linked list by showing its various operations such as adding a node, deleting a node and displaying the contents of the node. 20

SECTION—C

( Marks : 25 )

6. Viva 15
7. Practical Record 10

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### **III/BCA/305 (OC)**

**2 0 1 5**  
( 3rd Semester )

#### **BACHELOR OF COMPUTER APPLICATION**

Paper No. : BCA-305 (OC)

**( Data Structure Using 'C' )**

**( Practical )**

( Old Course )

*Full Marks : 75*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

Answer **one** question each from Sections A and B

#### **SECTION—A**

- I.** 1. Write a program for Insertion Sort. 20  
2. Write a program for a reverse linked list. 20

( 2 )

SECTION—B

- |     |    |   |    |
|-----|----|---|----|
| II. | 1. | Write a program to sort a linked list.          | 30 |
|     | 2. | Write a program for circular queue using Array. | 30 |

SECTION—C

- |      |                   |    |
|------|-------------------|----|
| III. | Viva voce.        | 15 |
| IV.  | Practical Record. | 10 |

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