

TDC Even Semester Exam., 2019

COMPUTER SCIENCE

( Pass )

( 4th Semester )

Course No. : BCSP-402

( Programming with C and Data Structure )

Full Marks : 30

Pass Marks : 10

Time : 3 hours

The figures in the margin indicate full marks for the questions

PART-1

Perform **one** experiment from each Group

GROUP-A

( Programming with C )

( Marks : 10 )

- 
- 1. Write a C program to find factors of a number. 10

- 2. Write a C program to find sum of  $n$  numbers. 10
- 

- 3. Write a C program to remove duplicate elements in an array. 10
- 

- 4. Write a C program to reverse a string using a pointer. 10
- 

- 5. Write a C program to swap two numbers using a pointer. 10
- 

- 6. Write a C program to print Fibonacci series using recursion. 10
- 

GROUP-B

( Data Structure )

( Marks : 10 )

- 
- 1. Write a C program to create a linked list and display the elements in a list. 10

( 3 )

2. Write a C program to implement a queue data structure using a linked list. 10

-----

3. Write a C program to insert and delete a node in a binary tree. 10

-----

4. Write a C program to demonstrate inorder, pre-order and post-order traversals. 10

-----

5. Write a C program to add two polynomials. 10

-----

6. Write a C program to implement a stack using an array. 10

-----

Laboratory notebook. 5

Viva voce. 5

\*\*\*