

**MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)**

Term-End Practical Examination

December, 2017

01373

**MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES,
NETWORKING, DBMS LAB & JAVA PROGRAMMING)**

Time : 3 Hours

Maximum Marks : 100

Note : *There are four sections in this paper. Each section is of 45 minutes duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1. Write a program in 'C' language to implement a Doubly Linked List. 20

SECTION B

Networking

2. Write a shell script in Linux/Unix that accepts a text file as input and prints the number of lines in it. 20

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. 10
- CITY (Name, Mayor, Area, Number_of_Citizens)
- (b) Create the following query using SQL on the above table : 10
- List the name of the Mayor of the city which has a population of more than 100000. Make necessary assumptions.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that accepts two integers and the operation to be performed such as -, +, *, /. Then, the result shall be printed. 20
-