

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

00773

Term-End Practical Examination

December, 2017

**MCSL-025(P)/S1 : 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 two stacks in an Array. Make necessary assumptions. 20

SECTION B

Networking

2. Write a shell script in Linux/Unix that accepts a text file as input and prints all such words of the text file to standard output which have at least one vowel. 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.

SCHOOL (Name, City, Uniform_Color, Total_Students) 10

- (b) Create the following query using SQL on the above table : 10

List the names of all schools which have more than 1000 students and Blue uniform.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that takes the sides of a triangle and draws the triangle in Red color. 20
