

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

01543

Term-End Practical Examination

December, 2016

**MCSL-025(P)/S2 : 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 Bubble Sort. 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 whose first character is in upper case. 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
- TRAIN (Name, Number, Start_Station, Last_Station)
- (b) Create the following query using SQL on the above table : 10
- List the numbers and names of all trains which start from New Delhi and whose last station is at Visakhapatnam.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that accepts a String as input and prints whether it is a Palindrome or not. 20