

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination

June, 2015

07883

**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 Singly 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 which have a semi-colon in them. 20

SECTION C

DBMS Lab

3. (a) Create the following table with proper datatype for all the fields. The key field is underlined. Insert 10 meaningful records in the table. 10
- EMPLOYEE (Name, EmpID, Salary, Age)
- (b) Answer the following query using SQL on the above table : 10
- List the names of Employees whose salary is more than ₹ 50000/- and Age is less than 40 years.

SECTION D

Java Programming

4. Write a program in Java to create an Applet that accepts the name of a country as input and prints the name of its capital city as output. 20