MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination
June, 2016

01805

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 which have more than 5 words.   **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*

   STUDENT (S_id, Name, Dep_Name, Age, Address, Programme, Marks)

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

   List the names and addresses of all the students who are less than 25 years old and registered in the MCA programme.

SECTION D

Java Programming

4. Write a program using Java to create an applet that accepts 5 integers as input and prints them in ascending order. *20*