MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

03206   Term-End Practical Examination

June, 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 Quick Sort.   **20**

SECTION B

Networking

2. Write a shell script in Linux / Unix that accepts a text file as input and prints the number of words that do not have a vowel in them.   **20**

SECTION C

DBMS Lab

3. (a) Create the following tables with appropriate data types for all the fields. The key field is underlined. Insert 5 meaningful records in each table. *10*

TEACHER (T_ id, D_id, Subject, Name, Date_of_birth, Years_of_Exp)

DEPARTMENT (D_id, Address, D_Name, Total_No_of_Students)

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

List the Name and D_Name of the teachers of subject "MATHEMATICS" who have more than 5 years of experience.

SECTION D

Java Programming

4. Write a program using Java to create an applet that accepts a string as input and prints it in reverse order. *20*