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

01049

### Term-End Practical Examination
### December, 2015

## 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 the number of words in the file that have a vowel in them.          **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.  *10*

   CAR (Owner_name, <u>Number</u>, Colour)

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

   List the numbers of all Cars whose colour is Blue and the Owner's name is "John".

# SECTION D

## Java Programming

4. Write a program in Java to create an Applet that accepts 10 integers as input and prints their average.  *20*

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