

MCA (REVISED)

Term-End Practical Examination

01914

December, 2013

**MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE
STRUCTURES, NETWORKING, DBMS LAB AND JAVA
PROGRAMMING)**

Time allowed : 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 C program to create stack data structure with **push** and **pop** functions. Also create a function to check whether stack is full or not. 20

SECTION-B

Networking

Perform the practicals on LINUX/UNIX/Windows 2000. In Case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command. 4
- (a) ipconfig (b) rmdir (c) pwd (d) fc
2. Perform the following tasks : 9
- (a) view the TCP/IP setting
- (b) Display a sorted list of all the files in home directory that contain the word "MCA second Semester" inside them.
- (c) Add a user in an existing group.

3. Install the routing and remote access services for IP Routing 7

SECTION-C

DBMS LAB

1. (a) Create the following table with proper data types for all the fields. The key field is underlined. Insert 10 meaningful records in the table : 8

FLIGHT (Flight-No, source, Destination, Departure-Time, Airlines- Name, Fare, Distance)

- (b) Answer the following queries using SQL on the above table : 12

- (i) List Fare and Departure time of all the flights from Delhi to Mumbai.
- (ii) Find the flight number and airline name which changes minimum fare from Mumbai to Pune.
- (iii) List all the flights from Mumbai, to Jaipur for which scheduled departure time is 2:00 PM onwards.

SECTION-D

Java Programming

1. Write a Java program to create an Applet to generate table of 10. 20
