

MCA (Revised)
Term-End Practical Examination
December, 2007

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

Time allowed : 3 hours

Maximum Marks : 100

Note : There are four sections (Data and File Structures, Networking, DBMS Lab and Java Programming) in this paper. Each section is for 40 minutes duration. Attempt only that part(s) in which you are **not** successful as yet.

Answer all the questions in each section. Each section carries 20 marks and the viva-voce is for 5 marks.

SECTION A : Data and File Structures

1. Write a program in 'C' language to accept 6 strings as input and print them in lexicographic order. 10

2. Write a program in 'C' language to implement a circular linked list. 10

SECTION B : Networking

Perform practicals on Linux / Unix / Windows 2000.

1. Run the following commands and write the use of each command : 2
 - (a) ipconfig
 - (b) pathping
 - (c) telnet
 - (d) hostname

2. View the TCP/IP settings. 3

3. Use ping to find the round trip delay to <http://www.yahoo.com>. 4

4. Access your account available on another machine from the current machine. Download a file from that machine to your current machine. 4

5. Install and configure Windows 2000 Active directory and Domain controller. 7

SECTION C : DBMS Lab

1. Create the following table and perform the necessary tasks defined below :

(a) Create the following table named HOSPITAL :

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- Name
- Address
- Number_of_Doctors
- Number_of_Departments
- Number_of_Patients

(b) Enter at least 5 sets of data in the above table and answer the following queries using SQL :

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- (i) How many hospitals are present in Chennai ?
- (ii) List the names of all hospitals which are having at least 6 departments.
- (iii) What is the name of the hospital which has highest number of departments ?
- (iv) How many patients are present in all hospitals ?
- (v) What is the name of the hospital where there are no patients ?

SECTION D : Java Programming

1. Write a program in Java that accepts a file and a key value as input and searches for the key value in the file. The program should give appropriate message about presence of key value in file. 10
2. Write a program in Java for the addition of two matrices. 10