

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 implement Kruskal's algorithm. 10

2. Write a program in 'C' language to accept a paragraph of text as input. Make a list of words and the number of occurrences of each word in the paragraph as output. 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) sfc
 - (b) diskperf
 - (c) chkdsk
 - (d) ping
2. Create a file called thames.txt that contains the words "Tajmahal is a wonder of the world."
Now, copy this file to desktop and then open it. 3
3. Send a message to all users who are online. Make provision so that you can send messages to other users but others cannot. 4
4. Create a hierarchical directory tree. 4
5. Install and configure terminal services. 7

SECTION C : DBMS Lab

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

(a) Create the following table named TRAIN :

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- Name
- Number
- Source
- Destination
- Number_of_stations

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

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- (i) List the names of all trains which start from New Delhi.
- (ii) List the numbers of all trains which will stop at atleast two stations between their source and destination.
- (iii) Find the number of "Coromandel Express".
- (iv) Find the number of trains whose number ends with 5.
- (v) Find the number of trains that reach New Delhi every day.

SECTION D : Java Programming

1. Write a program in Java for the addition of two polynomials. 10
2. Write a program in Java that accepts an integer and computes its factorial. Don't use any library function that computes factorial. 10