SET - 1

MCA (REVISED)

Term-End Practical Examination 00084

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 a circular Queue with its all functions :　20

SECTION-B
Networking

Perform the practical 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)　rsh　　(b)　grep　　(c)　netdiag　　(d)　drivers

2.　Perform the following tasks :
　　(a)　Create a *cron* job that send you a message "Are you there" after every　9
　　　　10 minutes.
　　(b)　Install and configure a local printer.
　　(c)　Create a Hierarchical Directory Tree.

3. Install and configure Windows 2000 Server.   **7**

SECTION-C
DBMS LAB

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

   DOCTOR (<u>D-id</u> , Name, Sex, Specialization, Fee, Address)

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

   (i) List all the male Doctors who are child specialist.

   (ii) List the name and fee of all the female doctors who are Gynaecologist.

   (iii) Find the name and address of the Dentist whose fee is minimum.

SECTION-D
Java Programming

1. Write a Java program to Create a Faculty class and derive Assistant-   **20** Professor, Associate-Professor and Professor Classes from it. Define proper constructor for all the classes. Also define methods to show overloading and overriding features.

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