MCA (Revised)

Term-End Practical Examination

December, 2010

01743

MCSL-025(P) : LABORATORY COURSE (DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)
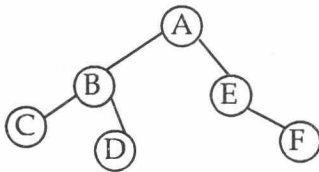
Time allowed : 3 hours

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 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 5 marks.*

SECTION - A : Data and File Structures

1. Write a C program to create following tree: 10

2. Write a C program for Pre - order traversal of tree created in Question 1. 10

SECTION - B : Networking

Perform the practical on LINUX/UNIX /windows 2000. In case you do not have suffficient access 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) ftp   (b) hostname (c)   tracert   (d)   net diag

2. Perform the following tasks :   9

   (a) Configure web based printer

   (b) Find Ethernet physical Address of a machine

   (c) Create a Cron Job that sends you a message after 5 minutes

3. Monitor the IP routing status   7

SECTION - C : DBMS Lab

1. Create the following table and perform the necessary task defined below :   **5**

   (a) Create the following table named 'student':
   - Name
   - Roll Number
   - Programme
   - Batch
   - Semester
   - Address
   - Project guide
   - year of - Admission

   (b) Enter at least 5 records in the above table and answer the following queries using   **15** SQL :

   (i) List the name and address of the students who have taken admission in year 2005 and their Project Guide is " Dr. Rajesh Mohan ".

   (ii) List total number of students guided by " Dr. Rajesh Verma".

   (iii) Find total number of students in Batch 'A' of semester "3" of , MCA programme.

SECTION - D : Java Programming

1. Write a Java program to create student class with a constructur to initilize student **10**
    object with name, roll number, sex, Programme and Date of Birth. Write a method to
    display age of the student.

2. Write an Applet which display your name and address in the middle of the page. keep **10**
    background color of the page ' blue'.

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