

**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.

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**SECTION A : Data and File Structures**

1. Write a program in 'C' language to create a Binary Search Tree. The program should accept a key value as input and search for it in Binary Search Tree. The program should print appropriate message as output. 15
  
2. Write a program in 'C' language to accept 10 integers as input and print the smallest among them as output. 5

## SECTION B : Networking

*Perform practicals on Linux/Unix/Windows 2000.*

1. Run the following commands and write the use of each command : 2
  - (a) rsh
  - (b) lpq
  - (c) tracet
  - (d) netdiag
  
2. Connect to a remote machine using suitable command. 3
  
3. Add two users, set their passwords and define permissions. 4
  
4. Configure a DNS server as a root name server. 4
  
5. Encrypt files and folders on a Windows 2000 server. 7

## SECTION C : DBMS Lab

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

(a) Create the following table named BANK :

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- Name
- Branches
- Customers
- Types\_of\_accounts
- Types\_of\_loans

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

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- (i) Find the bank with the largest number of customers.
- (ii) How many types of accounts does XYZ bank offer.
- (iii) Find the bank which does not give a personal loan.
- (iv) Find the bank with lowest number of branches.
- (v) Find the bank which gives personal loan but not housing loan.

## **SECTION D : Java Programming**

1. Write a program in Java that accepts an integer as input and prints the sum of digits of it. The program should support integers of at least 4 digits. 10
2. Write a program in Java that accepts a string as input and prints whether the string is a palindrome or not. 10