

**MCA (REVISED)**

**Term-End Practical Examination**

**June, 2013**

**01328**

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

*Time allowed : 3 hours*

*Maximum Marks : 100*

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**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.*

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**SECTION-A**

**Data and File Structures**

1. Write a C program to create a linked list, insert 10 element to it and using a function print these elements. **20**

## SECTION-B

### Networking

Perform the practicals 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) netdiag            (b) chkdsk            (c) grep            (d) ping
  
2. Perform the following tasks : 9  
(a) Find the roundtrip delay to a website [www.ignou.ac.in](http://www.ignou.ac.in)  
(b) Connect to another machine using telnet.  
(c) Create a directory hierarchy to store file in more arranged manner.
  
3. View information of a registry of Windows 2000. Show how to add a value in registry. 7  
Also store registry content in a file.

**SECTION-C**

**DBMS LAB**

1. (a) Create the following table with proper data type for all the fields. The key field/attribute is underlined. Insert 10 meaningful records in this table. 8  
PASSENGER (P\_id, Name, Source, Destination, Distance, Sex, Age)
- (b) Answer the following queries using SQL on the above table : 12
- (i) List name and age of all the passengers whose age is more than 60 years and they are female.
  - (ii) List the name of passengers who are going from Delhi to Jaipur.
  - (iii) Find the name of those male passengers who are going to Delhi and their age is more than 35 but less than 50 years.

**SECTION-D**  
**Java Programming**

1. Write a Java Program to create shape class. Derive circle and square classes from shape class. Define appropriate constructors for all the classes. Define a method Area( ) to find the area of the specific shape in shape class. Override Area( ) method in circle and square classes. 20
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