# MCA (Revised)

## Term-End Practical Examination

00369

## December, 2011

### MCSL-045 : UNIX AND DBMS LAB

*Time allowed : 2 hours*    *Maximum Marks : 50*

*Note :*    *There are **two** sections in this paper. Each Section is of **1** hour duration and carry **20** marks. 5 marks is for **viva - voce** of each section separately. Attempt only that section(s), which is not yet clear.*

### SECTION - A : UNIX

1.  Write UNIX commands and execute them for performing the following :    5
    (a)  To report repeated lines in the file named Repeat.txt.
    (b)  To check the spellings of the words in a file.
    (c)  To reset the password.
    (d)  To display first *three* lines of a file named UNIX.TXT.
    (e)  To change the ownership of a file.

2.  Write a shell script to find out the average of four given numbers. These numbers to be    8
    supplied as command line arguments. Print the error if sufficient arguments are not provided.

3.  Write a shell script to print the following pattern on screen.    7
    A
    A B
    A B C
    A B C D
    A B C D E

## SECTION - B : DBMS

*Note : Answer the following questions :*

1.  Create a relational database with the following relations and insert *ten* meaningful        6
    data/records in each table of the relations :

    HOD (D_id, D_Name, DOB, E_id, Date - of - Joining)

    Employee (D_id, E_id, name, Designation, specialization)

    Salary (Eid, Basic, DA, HRA, Perks, gross)

2.  Using the schema given above in Q 1 write a procedure to display the names of all the       5
    employees whose Department id is 101 and whose gross salary is Rs 50000/- per month
    and specialization is in "Accounts".

3.  Using the schema given above in Q 1, write a trigger that is fired before any row is        3
    inserted in the table HOD.

4.  Using SQL query perform the followings on relations given in Q1.                            6
    (i)    Find the specialization of the Head of Department id = 107.
    (ii)   Find the gross salary of HOD of Department id = 109.
    (iii)  List the Designation of all the employees in Department id = 110, whose salary is
           more than Rs, 20000/- per month.

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