

**MCA (Revised)**  
**Term-End Practical Examination**  
**June, 2011**  
**MCSL-045 : UNIX AND DBMS LAB**

02984

*Time allowed : 2 hours*

*Maximum Marks : 50*

---

**Note :** *There are two parts : UNIX and DBMS in this paper. Each part is of 1 hour duration and carry 20 marks. 5 marks is for Viva - voce of each part separately. Attempt only that part(s), which is/are not yet clear.*

---

**PART-I**  
**UNIX**

1. Write and execute the UNIX commands for the following : 5
  - (a) To split a file containing 50 lines into 10 lines each.
  - (b) To display the date and Time.
  - (c) To show the current working directory.
  - (d) To change the ownership of a file.
  - (e) To pipe the output of "Who" command to the sort command.
  
2. Write a shell script to find the sum of all the digits of a four digit number, supplied as input. 5
  
3. Write a shell script to implement background process that will continually print current time and date in the upper left corner of the screen, while user doing normal job at \$ prompt. 10

**PART-II**  
**DBMS**

*Note : Answer the following questions :*

1. Create an EMPLOYEE table with the fields Emp\_No, E\_Name, Designation, Salary, Department\_No, Date-of-Joining. Insert 10 meaningful records / data in this table. 3
  
  2. Perform the following queries/operations using the table created in Q.1.
    - (a) Display Name and Designation of those employee(s) whose salary is in the range of Rs. 20,000/- and Rs. 45,000/- 4
    - (b) Display name and salary of all the employee(s) who have Joined Department\_No=100, before 01-01-2004. 4
    - (c) Write a trigger that is fired before any row is inserted in the EMPLOYEE table. 4
    - (d) Write a function that takes the Department\_No and return the Employee name and date of joining in the department of all its employee(s). 5
-

**MCA (Revised)**  
**Term-End Practical Examination** 00522  
**June, 2011**  
**MCSL-045 : UNIX AND DBMS LAB**

Time allowed : 2 hours

Maximum Marks : 50

---

**Note :** There are *two* parts : **UNIX** and **DBMS** in this paper. Each part is of 1 hour duration. Attempt only that part (s) which are not yet successful. Each part is of 20 marks and 5 marks addition in each part is for *viva-voce*.

---

**PART-I**  
**UNIX**

1. Write and execute the Unix commands for the following : 5
  - (a) To delete a file named Unix file. txt.
  - (b) To display environment variables.
  - (c) To kill a process with its ID.
  - (d) To show the current working directory.
  - (e) To print all the lines in a file that contain the string "UNIX".
  
2. Write shell script using for loop to print the following pattern on screen : 5

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```
  
3. Write a shell script to take a five digit number as input and print the reverse of the number : 10

Input : 1 2 3 4 5  
Output : 5 4 3 2 1

**PART-II**  
**DBMS**

*Note : Answer the following questions :*

1. Create a relational database with the following relations and insert ten meaningful data/records in each table of the relation. 6  
Company (ID,Name, Product\_Name, Product ID)  
Product (Product ID, Name, Price, S\_ID)  
Sales-person (Sap\_ID, Name, Area Code, Product ID)
  
  2. Perform following queries using the relations created in Q.1, through SQL statements.
    - (a) List all products which are sold by sales person with Sap\_ID = 02 and created by company with ID = 10 and whose price is more than 100. 5
    - (b) List all the product of price more than 50 which are sold by sales person with Sap ID = 50 and produced by company with ID = 100. 5
    - (c) Print detail of all the products which are produced by a company with ID=20 and sold by sales person with Sap\_ID = 200. 4
-