

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination

June, 2014

04267

MCSL-045(P)/S1 : UNIX AND DBMS LAB

Time : 2 Hours

Maximum Marks : 50

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- Note :**
- (i) *There are two sections in this paper.*
 - (ii) *Each section is of 1 hour duration and carries 20 marks.*
 - (iii) *5 marks are for viva-voce of each section separately.*
 - (iv) *Attempt only that section(s) which is not yet clear.*
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SECTION A

UNIX

- 1. Write and execute UNIX commands for the following : 5
 - (a) To reset the password.
 - (b) To change the ownership of a file.
 - (c) To check the spellings of words in a file.
 - (d) To run a program at lower priority.
 - (e) To compare two files and show their differences.

- 2. Write a shell script to print the following pattern : 8

```
1
1 2
1 2 3
1 2 3 4
```

- 3. Write a shell script to print factorial of any number (n), entered by user. 7

SECTION B

DBMS LAB

4. Enter 10 meaningful records in the relational databases, whose schema is given below : 6
Dept_Head (Dept_ID, Dept_Name, DOB, Emp_ID, Date_of_Joining)
Employee (Dept_ID, Emp_ID, Name, Designation, Specialization)
Salary (Emp_ID, Basic, DA, HRA, Perks, Gross)

5. Use the relational database developed by you in Q4 (above), to write a procedure for “Display of the names of all the employees whose Department ID (i.e. Dept_ID) is 101, and whose Gross Salary is ₹ 40,000 per month and specialization is in “Engineering”. 7

6. Write a trigger that executes (or fires) when any record is updated in the table Dept_Head of Q4 (above). 7

02450

MASTER OF COMPUTER APPLICATIONS (Revised)

(MCA)

Term-End Practical Examination

June, 2014

MCSL-045(P)/S2 : UNIX AND DBMS LAB

Time : 2 Hours

Maximum Marks : 50

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- Note :**
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SECTION A

UNIX

1. Write and execute UNIX commands for the following : 5
 - (a) To display first 10 lines of a file.
 - (b) To count number of words in a file.
 - (c) To find out who is logged on to the system.
 - (d) To kill a process.
 - (e) To show the current working directory.

2. Write a shell script to check whether a given string is a palindrome or not. 8

3. Write a shell script to display current date, time, username and current directory. 7

SECTION B

DBMS LAB

4. Insert 10 meaningful records in each table whose schema is given below : 6
Company (C_ID, C_Name, C_Address, P_ID)
Product (P_ID, P_Name, P_Size, P_Price)
Sale (P_ID, P_Target, P_Sold, Area_Code)
5. Write a trigger that is fired when any record/row from table Product (in Q4) is deleted. 7
6. Using the relational databases developed in Q4, write a procedure to display the name of the company whose Product ID (i.e. P_ID) is 1000 and price (i.e. P_Price) is 15000. 7

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(MCA)

Term-End Practical Examination

June, 2014

MCSL-045(P)/S3 : UNIX AND DBMS LAB

Time : 2 Hours

Maximum Marks : 50

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- Note :**
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 - (iv) *Attempt only that section(s) which is not yet clear.*
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SECTION A

UNIX

1. Write and execute UNIX commands for the following : 5
 - (a) To append the redirected output to a storage file.
 - (b) To show the disk space used by files or directories.
 - (c) To translate all the lowercase letters of a text file to uppercase.
 - (d) To move file from one directory to other directory.
 - (e) To run any job in background.

2. Write a shell script which takes a list of 10 numbers as input, and prints all the odd numbers in the list. 8

3. Write a shell script to write the initials of any name given as input. 7

Input : Yogesh Jolly

Output : YJ

SECTION B

DBMS LAB

4. Create an Employee table with fields Emp_No, Emp_Name, Designation, Salary, Department_No, Date_of_Joining. Insert 10 meaningful records in this table. 4
5. Write a trigger that is fired before any row is inserted in the table Employee of Q4. 8
6. Write a function that takes the Department_No and returns the Emp_Name and Date_of_Joining in the department of all its employee(s). 8

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

00385

Term-End Practical Examination

June, 2014

MCSL-045(P)/S4 : UNIX AND DBMS LAB

Time : 2 Hours

Maximum Marks : 50

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SECTION A

UNIX

- 1. Write and execute UNIX commands for the following : 5
 - (a) To sort the files by their modification time.
 - (b) To display the login details of any user.
 - (c) To change the ownership of a file.
 - (d) To pipe the output of "Who" command to Sort command.
 - (e) To connect to a remote machine.

- 2. Write a shell script to count number of ".bak" files in the current working directory. 7

- 3. Write a shell script to immediately echo the length of the string given as an argument. 8

SECTION B

DBMS LAB

4. Create a table "Institute" with fields Inst_Name, Inst_Address, Inst_Owner, Establishment_Year.
Select appropriate data types for each field and insert 10 meaningful records in this table. 3
5. Using the table "Institute" from Q4 create a view with fields Inst_Name, Establishment_Year. 3
6. Use the table "Institute" from Q4 to write a procedure that finds whether an Inst_Name given by the user exists in the table Institute or not. 7
7. Use the table "Institute" from Q4 to write a function that takes the Establishment_Year as input, and returns the Inst_Name of all the institutes established in the year given as input. 7