

MCA (Revised)

Term-End Practical Examination 05185

December, 2012

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**. Each section have 5 marks for *viva - voce* separately.

SECTION - A : UNIX LAB

1. Write and execute the UNIX Commands for performing the following : 5
 - (a) To create a directory.
 - (b) To compare two files and show the differences.
 - (c) To pipe the output of "who" command to the "sort" command.
 - (d) To change the ownership of a file
 - (e) To save the output in a file and display the same on the VDU.

2. Write a shell script that read first five lines from a text file named my File. txt : 10

Count the number of special characters (*, #, &, @, ?) and blank space in these five lines.

3. Write a shell script to display user name, current directory, current date and time. 5

SECTION - B : DBMS

Note : Answer the following questions :

1. Create a relational database with the following relations and insert at least 8 records in each table of the relation. 6
Employee (E_id, name, designation, salary, comp_id, years_of_exp) Company
(Comp_id, C_name, address, turnover)
 2. Using relations of Q1., Write a procedure to display name and designation of the employees of companies whose turnover is Rs. 2,00,000/- or above. 5
 3. List the name and address of the companies whose turnover is more than Rs. 1,00,000/- and have more than 50 employees on roll. 5
 4. Create a view that stores name and designation of all the companies, whose turnover is less than Rs. 5,00,000/- 4
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Term-End Practical Examination 01985

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SECTION - A : UNIX LAB

1. Write and execute the UNIX commands for performing the following : 5
 - (a) To run a program with higher priority.
 - (b) To send message from your terminal to other active user.
 - (c) To report the repeated lines in a file named "MyFile. txt".
 - (d) To kill more than one process at a time.
 - (e) To rename the file "First. txt" to "second. txt".

2. Write a shell script to find the average marks of ten students in UNIX Lab paper. 8

3. Write a shell script to display message "Good Morning", "Good After Noon" or "Good Evening", according to the system's time at the moment of execution of the script. 7

SECTION - B : DBMS

Note : Answer the following questions :

1. Create a relational database with the following relations and insert at least 8 records in each table of the relation. 6
DEPARTMENT (D_id, D_Name, Address, Year_of_establishment)
EMPLOYEE (E_id, D_id, Name, Designation, Year-of_experience)
SALARY (E_id, Basic, DA, HRA, Perks, Gross)

 2. Using the schema given in Q1 write a procedure to display the name and year of experience of all the employees, who work for Department id = 1001 and have Gross Salary more than Rs. 50,000/- 5

 3. Using schema given in Q1.; Write a trigger that fired before any row is inserted in SALARY table. 3

 4. Using SQL query perform the followings on relations given in Q1. 3x2=6
 - (a) List name and designation of all the employees who work for department id = 2002 and have more than 10 years of experience.
 - (b) List name and Basic Salary of all the Managers who work in department id = 2002.
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Term-End Practical Examination 01835
December, 2012
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SECTION - A : UNIX LAB

1. Write and execute the UNIX Commands for performing the following : 5
 - (a) To display your current environment variable.
 - (b) To determine the type of a file.
 - (c) To remove a directory.
 - (d) To check the spellings of the words in a file.
 - (e) To make poster of "MCA PRACTICAL EXAM".

2. Write a shell script that take your name as input and display : 7

Miss/Mr : Your name
Today is : date
Current Time : time

3. Write a shell script to find the sum of first 10 elements of the series : 8

1 + 5 + 9 + 13 + 17.....

SECTION - B : DBMS

Note : Answer the following questions :

1. Create a relational database with the following relations and insert atleast 8 records in each table of the relation. 6
PUBLISHER (P_id, P_Name, Address, Year_of_Establishment)
BOOK (P_id, ISBN, Author_id, Title, Year_of Pub, Price)
AUTHOR (Author_id, name, Address, City, ISBN)

2. Using schema given in Q1., write a trigger that is fired before any row is inserted in BOOK table. 4

3. Using the schema given in Q1., Write a procedure to display the name and city of all the authors who have written books with publisher id = 202011 and the price of book is more than Rs. 500/- 4

4. Using SQL query perform the followings on relations given in Q1. 6
 - (a) List the Book title, author name and city for all the books of price more than Rs. 1000/- and published by publisher id = 202012.
 - (b) List title and price of all the books published in year 2012.
 - (c) List the name and address of all the publishers who have published books of price more than Rs. 20,000/-

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SECTION - A : UNIX LAB

1. Write and execute the UNIX commands for performing the following : 5
 - (a) To reset the password.
 - (b) To kill a process with its given ID.
 - (c) To connect to a remote machine.
 - (d) To run a program at higher priority.
 - (e) To change the ownership of a file.

2. Write a shell script that delete all the even numbered lines in a text file named Mybook .txt. 7

3. Write a shell script to find the factorial of a given number. The number should be given as command line argument. 8

SECTION - B : DBMS

Note : Answer the following questions :

1. Create the relational database with following relations and insert at least 8 records in each table of the relation. 6
PASSENGER (P-id, name, address, age, sex)
TICKET (P_id, PNR, Source, F_NO, Destination, Date, Fare)
FLIGHT (F_NO, Source, Destination, Dep_Time, Arr_Time, Distance)

2. Using schema given in Q1. Write a trigger that is fired before any row is inserted in TICKET table. 3

3. Create a view that stores passengers name and address who will fly from Delhi to Mumbai on 15-01-2013. 5

4. Perform the following queries using the relations created in Q1., through SQL statements : 3x2=6
 - (a) Find the fare (minimum) from Jaipur to Delhi.
 - (b) List the name and address of passengers whose age is more than 60 years and will fly on 15-01-2013.