

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination

June, 2017

00124

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

Time : 2 Hours

Maximum Marks : 50

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- Note :**
- (i) *There are two sections in this paper.*
 - (ii) *All the questions are **compulsory**.*
 - (iii) *Each section is of **one hour** duration and carries 20 marks.*
 - (iv) *5 marks are for viva-voce of each section separately.*
 - (v) *Attempt only that section(s) in which you are **not successful as yet**.*
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SECTION A

UNIX

1. Write and execute the following UNIX commands : 5×1=5
- (a) To encrypt a data file with a private key.
 - (b) To compare 2 files and show differences.
 - (c) To count number of characters, words and lines in a file.
 - (d) To show first few lines of a file.
 - (e) To show online summary of system status.
2. (a) Write a shell script to echo the string length of a given string as an argument. 7
- (b) Write a shell script to display the processing status on the system for every 60 seconds, for only 5 times. 8

SECTION B

DBMS

3. Create a database for the schema as shown below :

EMPLOYEE (ename, street, city)

WORKS (ename, companyname, salary)

COMPANY (companyname, city)

MANAGES (ename, manager_name)

Select appropriate data types for all the fields. Identify the key constraints.

Input 10 meaningful data.

10

4. For the above tables in Q.3, answer the following queries using SQL : 5×2=10

(a) To display the company name of the employee "KRISHNA" and his salary.

(b) To find all the employees who work for "GREAT GRAND INDUSTRIES".

(c) To list all the employees of the city "NEW DELHI".

(d) To list all the employee names whose manager_name is "RUDRA".

(e) To list all the companies in "MUMBAI".
