

**MASTER OF COMPUTER APPLICATIONS (Revised)**  
**(MCA)**

**Term-End Practical Examination**

**June, 2017**

00474

**MCSL-045(P)/S2 : 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 commands in UNIX : 5×1=5
  - (a) To write a C program **abc.c** using **vi** editor.
  - (b) To set all the permissions of the file to **read\_write\_execute**.
  - (c) To move a file to desired location.
  - (d) To display the current directory.
  - (e) To compare two files and report if different.
  
2. Write a shell program to encrypt any text file, given its file-name as an argument. 15

## SECTION B

### DBMS

3. Create a REFERENCE\_BOOK database with the following schema :

STUDENT (ENO, NAME, MAJOR\_SUBJECT, DOB)

COURSE (COURSE\_ID, COURSE\_NAME, DEPT)

ENROL (ENO, COURSE\_ID, SEM, MARKS)

REF\_BOOK (COURSE\_ID, SEM, ISBN)

BOOK\_DET (ISBN, BOOK\_TITLE, PUBLISHER, AUTHOR)

Select appropriate data types for all the fields. Also select the key constraints.

Input 10 meaningful records.

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4. For the above database in Q.3, answer the following queries using SQL :  $5 \times 2 = 10$

- (a) To add a next reference\_book to the database and make this book to be identified as reference book by some department.
- (b) To display all the course\_ids and corresponding reference books.
- (c) To display all the course\_ids offered by PHYSICS department.
- (d) To display all the students' ENOs and respective major subjects of them.
- (c) To display all the ISBNs of AUTHOR = "SOM".

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