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MCSL-045/S3

**Master of Computer Applications
(Revised) (MCA)**

Term-End Examination

December, 2018

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.
5 marks are for viva-voce for each Section separately.
 - (iv) Attempt only those Section(s) in which you are not successful as yet.
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Section -A**(UNIX)**

Note : Answer the following questions. They carry 20 marks and the viva-voce is for 5 marks.

1. Write and execute the following UNIX commands : 5×1=5
 - (a) To show disk space used by files and directories.
 - (b) Use any screen editor to create a file "abc" and write "hello".
 - (c) To run a program at specified intervals.
 - (d) To rename and sub-directory.
 - (e) To compare two binary files and report if different.

2. Write a shell program to encrypt any text file. 15

Section -B**(DBMS)**

Note : Answer the following questions. They carry 20 marks and the viva-voce is for 5 marks.

3. For the schema given below, perform the tasks (a), (b) and (c) :

EMPLOYEE (ENo EName, Skill, Pay)

POSITION (Posting_No, Skill)

DUTY_ALLOCATION (Posting_No. ENo, Day, Shift)

Note : (Shift has three shifts for 8 hours each : S1, S2, S3).

[3]

- (a) Create tables. Select appropriate data types for each of the fields. Identify appropriate keys. Input meaningful data for at least 10 records. 5
- (b) Display the Posting_No and shift of the employee if "Day" is given as input. $2\frac{1}{2}$
- (c) List all the ENo's whose pay is greater than 1 lakh. $2\frac{1}{2}$
4. Write a procedure which takes ENo and displays the skill and Posting_No of the employee. 5
5. Write a trigger which fires before inserting and deleting a record in Employee table. 5