

01204

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination
December, 2014

MCSL-045(P)/S3 : 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 one hour duration and carries 20 marks.*
(iii) *5 marks are for viva-voice 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 the UNIX commands for the following : 5×1=5
- (a) To count the number of files in the present working directory.
 - (b) To split a file into two files with each containing half of the lines (contents).
 - (c) To direct the output to the screen as well as to a file.
 - (d) To show the usage of the disk space.
 - (e) To append the redirected output to a file.

2. Write a shell program to display the reversal of a 5-digit number. 15

Example : I/P : 12345

O/P : 54321

SECTION B

DBMS

3. Create the following DB :

STUDENT (SSN, Name, Major, BDate)

COURSE (Course#, CName, Dept)

ENROL (SSN, Course#, Quarter, Grade)

BOOK_ADOPTION (Course#, Quarter, Book_ISBN)

TEXT (Book_ISBN, Book_Title, Publisher, Author)

Select appropriate datatype for each of the fields. Identify appropriate "keys".
Input meaningful data for at least 5 records for each.

4. For the above DB given in Q3, answer the following queries using SQL : 5×2=10

- (a) Display the BDate of Student with "SSN =123".
- (b) To display the Author of "Book_ISBN = 12345678".
- (c) Produce the list of textbooks for the courses offered by "CS" department.
- (d) List all the SSN with "Course# = 111".
- (e) List all the SSN and corresponding Names.