

No. of Printed Pages : 3 **MCSL-045(P)(Set-I)**

MASTER OF COMPUTER

APPLICATIONS

(MCA) (REVISED)

Term-End Practical Examination

June, 2025

MCSL-045(P)(Set-I) : UNIX AND DBMS LAB

Time : 2 Hours

Maximum Marks : 50

Note : (i) *There are two Sections in this paper.*

(ii) *Each Section is of 1 hour duration
and carries 20 marks each.*

(iii) *5 marks are for viva-voce for each
Section separately.*

(iv) *Attempt only that Section(s) which is
not yet clear.*

Section—A
(UNIX)

1. Write and execute UNIX commands for the following : 5×1=5
 - (a) To list all background jobs.
 - (b) To kill a process using its PID.
 - (c) To check the memory usage of the system.
 - (d) To view the last login details of users.
 - (e) To change directory to the parent folder.
2. Write a shell script to accept 10 numbers and print the maximum and minimum among them. 15

Section—B
(DBMS)

3. Write the following database schema : 10

Instructor (InstructorID, Name, Subject, Join year)

Course (CourseID, Name, InstructorID)

Student (StudentID, Name, CourseID, Grade)

[3]

- Use appropriate primary and foreign keys.
 - Insert 5 records in each table.
4. Write SQL queries for the following database : 5×2=10
- (a) Display the names of all instructors who teach “Mathematics”.
 - (b) List students who scored grade ‘A’.
 - (c) Count the number of students per course.
 - (d) Show course names taught by Instructor ID = 101.
 - (e) Display the average grade (considering A = 4, B = 3, etc.) for each course.

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