

[Total No. of Questions: 4]

[Total No. of Printed pages: 1]

Enroll No.....

Class Roll No.....

LNCT UNIVERSITY, BHOPAL

I-Mid Semester Exam October 2024

Branch: CSE/AIML Semester: III

CS/AIML-301 DBMS

Time 1:30 Hrs

Max. Marks 20

Note: All questions are compulsory and have internal choice.

Ques.1: What is database management system? Write their components. (CO1 5 Marks)

OR

What are the different data models of DBMS? Explain.

Ques.2: Explain strong entity and weak entity. How it is represented in ER-diagram. Give proper example. (CO1 5 Marks)

OR

What do you understand by generalization and specialization?

Ques. 3: What are integrity constraints? Explain various types of integrity constraints with suitable example. (CO2 5 Marks)

OR

Discuss about relational algebra operations like select, project, joins with example.

Ques 4: Design a database having following tables

Employee(eid,ename,salary,deptid), Deptment(deptid,department)

- Find the average salary from 'SALES' department.
- Find those employee whose salary is less than 50000.
- Find name of employee whose name start from 'm'.

(CO2 5 Marks)

OR

What do you understand by keys? Write their type and explain in detail.