

H

Roll No.

TMC-204

M. C. A. (SECOND SEMESTER)

MID SEMESTER

EXAMINATION, 2021-22

DATABASE MANAGEMENT SYSTEM

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Define DBMS. Explain different types of DBMS. Also explain advantages of DBMS. List some Popular DBMS. (CO1)

OR

- (b) Explain the Three-Layer Architecture of DBMS in detail with Proper SQL Examples. What is Database Interface ?

(CO1)

P. T. O.

(2)

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2. (a) List and explain various limitations of Legacy File Systems. Give DBMS comparative examples. (CO1)

OR

- (b) Explain the following terms : (CO1)

(i) Data Independence

(ii) Schema

3. (a) Define RDBMS. Explain its distinctive features. Also list various properties of a Relational Table. (CO2)

OR

- (b) What is an ER Diagram ? Draw an ER diagram for a typical "Library Management System". Also convert it into set of tables. Show sample values and make required assumptions. (CO2)

4. (a) What are Relational Keys ? Why are they required ? Explain Primary key and its properties using SQL examples. (CO2)

OR

- (b) Assuming a "Patient" Table, write SQL queries for the following : (CO3)

- Creation of "Patient" table with "RegNo, Pname and Address" Columns.

(3)

- Input Records of 3 different Patients.
- Add A Column "Disease" of Varchar Type.
- Increase The Size of "Pname" Column.
- Assign Different Diseases to All Existing Patients.

5. (a) What are DDL and DML Commands ? Write at least *ten* different DDL and DML SQL Statements. (CO3)

OR

- (b) Define SQL. List and give SQL examples of various SQL functions category wise. (CO3)

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