

Code No.: R22CS301PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

II-B.TECH-I-Semester End Examinations (Regular) - February- 2024
DATABASE MANAGEMENT SYSTEMS
(Common for CSE, CSC)

[Time: 3 Hours]

[Max. Marks: 60]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 10 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(10 Marks)

1. a) Define Data Definition Language? [1M]
- b) What is Data Independence? [1M]
- c) Define SELECT operation in Relational Algebra? [1M]
- d) What is an Enforcing Integrity? [1M]
- e) Define Third Normal Form? [1M]
- f) What is Normalization? [1M]
- g) List the Transaction States? [1M]
- h) Define Multiple Granularity? [1M]
- i) What is File organization? [1M]
- j) Discuss about Cluster indexes. [1M]

PART-B

(50 Marks)

2. Discuss about Levels of Abstraction in a DBMS. [10M]
- OR**
3. State and explain various features of E-R Models. [10M]
4. Discuss in detail about Views? Explain Creating, Altering, Destroying of Views. [10M]
- OR**
5. Discuss about Tuple Relational Calculus In detail. [10M]
6. What is meant by Functional Dependencies? Discuss about Third Normal Form? [10M]
- OR**
7. Define Trigger and explain its three parts? Compare row level and statement level Triggers? [10M]
8. What is Transaction? Explain the ACID Properties of transactions? [10M]
- OR**
9. Explain in detail about Timestamp-Based Protocols? [10M]
10. Explain in detail about Indexed Sequential Access Methods (ISAM)? [10M]
- OR**
11. Explain deletion and search operation in B+ trees? [10M]
