CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Regular) - November- 2024
DATABASE MANAGEMENT SYSTEMS
(MECH)

[Time: 3 Hours]   [Max. Marks: 70]

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 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   (20 Marks)

1. a) Build the structure of DBMS.   [2M]
   b) Define attribute and name any two attributes.   [2M]
   c) What is Entity Integrity Constraint?   [2M]
   d) Explain about Logical Database design.   [2M]
   e) Define Triggers. Write the usage of triggers.   [2M]
   f) What is Data Redundancy?   [2M]
   g) Define View Serializability.   [2M]
   h) Explain about Multiple Granularity.   [2M]
   i) Discuss about data on external storage.   [2M]
   j) What is an Index? Give an example.   [2M]

PART-B   (50 Marks)

2. What is Data Model? Discuss types of Data Models.   [10M]

OR

3. Demonstrate about ER model in detail.   [10M]

4. Discuss about types of Integrity Constraints with examples. [10M]

OR

5. Discuss in detail about Views and also explain about creating, altering and destroying of views.   [10M]

6. Explain with example about a)Aggregate operators b)SET operators.   [5M+5M]

OR

7. Define Normalization. Explain types of normal forms in detail.   [10M]

8. Explain Log Based recovery mechanism from failure state of DBMS.   [10M]

OR

9. Discuss about Validation Based Protocol in detail.   [10M]

10. Explain briefly about Cluster Indexes   [10M]

OR

11. Discuss in detail about ISAM.   [10M]

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