CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II–B.TECH–I–Semester End Examinations (Supply)- June- 2022
DATABASE MANAGEMENT SYSTEMS
(Common to CSE, CSC & CSD)

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

Note: 1. Answer *any FIVE* questions. Each question carries 14 marks.
     2. All questions carry equal marks.
     3. Illustrate your answers with NEAT sketches wherever necessary.

5X14=70

1. a) Compare File Systems versus DBMS? [7M]
   b) What is an E-R model? Illustrate an E-R Diagram for online library management system? [7M]

2. a) Discuss in detail about the properties of Relation Algebra? [7M]
   b) What is an Integrity Constraint? Explain various types of Integrity Constraints? [7M]

3. a) Explain the following operators in SQL with examples: [7M]
      i) SOME   ii) IN   iii) EXCEPT
   b) What is meant by Functional Dependency? Discuss about Fourth and Fifth Normal Form? [7M]

4. a) How transaction management supported in SQL? Explain. [7M]
   b) Explain Indexed Sequential Access Method (ISAM)? [7M]

5. a) Explain Deletion and Insertion operations in ISAM with an example? [7M]
   b) Explain Extendible Hashing? [7M]

6. a) Explain about various database users and administrators in DBMS? [7M]
   b) Explain the architecture of Database Management System with a neat diagram? [7M]

7. a) What are the statements used in SQL for destroying and altering tables? [7M]
   b) Write about logical data base design? [7M]

8. a) Write about complex integrity constraints in SQL? [7M]
   b) What are the problems of redundancy? Explain with an example? [7M]

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