

Code No.: IT403PC

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**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**  
**II-B.TECH-II-Semester End Examinations (Regular) - June- 2022**  
**DATABASE MANAGEMENT SYSTEMS**  
**(Common to CSM, IT)**

[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) Explain the drawbacks of File Processing System? [7M]  
b) Explain various database languages with example? [7M]
2. a) Draw an ER Diagram for Banking Systems? [7M]  
b) Differentiate between Foreign Key constraints and Referential Integrity constraints with suitable example? [7M]
3. a) Describe the properties of Decompositions? [7M]  
b) Explain Multivalued dependencies and Fourth Normal form with example? [7M]
4. a) Discuss Two Phase Locking Protocol and strict Two Phase Locking protocol? [7M]  
b) Illustrate Concurrent execution of transaction with example? [7M]
5. a) Compare I/O costs for all File Organizations? [7M]  
b) Compare and Contrast Extendible Hashing with Linear Hashing? [7M]
6. a) Explain the Database system Architecture with neat diagram? [7M]  
b) Explain levels of Data abstractions in DBMS? [7M]
7. a) Define Trigger and explain its three parts? Differentiate between row level and statement level? [7M]  
b) Illustrate Group by and Having clauses with example? [7M]
8. a) Define Functional Dependency? How are primary keys related to FD's? [7M]  
b) Explain about Schema refinement in Database design? [7M]

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