Q.P. Code: 19MC9114

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Reg. No: SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) MCA II Year- I Semester Supplementary Examinations August-2021 DATABASE MANAGEMENT SYSTEM Time: 3 hours Max. Marks: 60 (Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I List and Explain various Levels of Abstraction. 1 **6M** Write short notes on Hierarchical Model and Network Model. b **6M** OR List and Explain various notations of E/R diagram with examples. 2 12M UNIT-II 3 Define Relational Data model and Give any four examples for RDBMS. **6M** b What are the different types of keys used in Relational data model? **6M** Build a relational schema for banking application by converting the ER diagram. 12M UNIT-III 5 List out various Data Definition Language commands with Syntax & examples. **6M** b List out various Data Manipulation Language commands with Syntax & **6M** examples. OR Illustrate Nested Queries with an example. 6 a **6M** Demonstrate various Aggregate Functions with example. b **6M** UNIT-IV List and explain various normal forms with examples. 12M OR Define Functional Dependency. 8 3MDiscuss about different functional dependencies with examples. b 9M UNIT-V Explain log-Based Recovery in detail. 12M OR 10 a What is a transaction in database system? 3MList and explain the ACID Properties with neat diagram. b 9M

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