

Reg. No: 

--	--	--	--	--	--	--	--	--	--

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B. Tech II Year I Semester Supplementary Examinations August-2021**

**RELATIONAL DATABASE MANAGEMENT SYSTEM**

(Common to CE, AGE, ME & EEE)

(Open Elective-I)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

**UNIT-I**

- 1 a Define Data Abstraction and explain about levels of Abstraction 6M  
b Briefly discuss about Database users and Administrators. 6M

**OR**

- 2 a Explain about the Architecture of a Database system. 6M  
b Implement the following DML Commands (i)Insert (ii)Select (iii)Update 6M  
(iv) Delete

**UNIT-II**

- 3 a Write about the different symbols used in ER diagrams. 8M  
b Define Join and explain different types of Joins. 4M

**OR**

- 4 Illustrate different set operations in Relational algebra with an example. 12M

**UNIT-III**

- 5 a Specify the form of basic SQL query with an example. 6M  
b Describe about Expression and string in Select command with an example. 6M

**OR**

- 6 a State and explain aggregate operators with an example. 8M  
b Discuss about GROUP BY and HAVING clauses. 4M

**UNIT-IV**

- 7 a Illustrate redundancy and the problems that it can cause? 6M  
b What is 3 NF ? Give an example. 6M

**OR**

- 8 Explain the properties of decomposition and fifth normal form with an example. 12M

**UNIT-V**

- 9 a Explain about the deadlock prevention schemes. 6M  
b Write a note on ISAM. 6M

**OR**

- 10 a Distinguish between fixed length records and variable length records. 6M  
b What are the methods used in log based recovery? 6M

\*\*\* END \*\*\*