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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Supplementary Examinations December 2018
Database Management Systems
(CSE)

Time: **3 hours**Max. Marks: **60**(Answer all Five Units **5 X 12 = 60** Marks)**UNIT-I**

- 1 a. Define Database? Explain the merits and demerits of Database Systems? 6M
 b. Explain about Entity-Relationship model with an example 6M

OR

- 2 a. Draw and Explain architecture of DBMS. 7M
 b. Define Instance and Schema? List different data models and explain? 5M

UNIT-II

- 3 a. Write about relational algebra, Discuss about different operators used in algebra. 8M
 b. Explain the following: i). Ternary Relationship ii). Weak entity set 4M

OR

- 4 What is meant by integrity constraint? Write about complex integrity constraints in SQL. 12M

UNIT-III

- 5 a. Explain about Boyce Codd Normal Form with an example. 6M
 b. Explain the concept of Functional Dependency with an example. 6M

OR

- 6 a. What is meant by multivalued dependency? Explain with example? 6M
 b. Explain about denormalization with an example. 6M

UNIT-IV

- 7 a. Explain ACID properties of Transaction Management. 6M
 b. What is Serializability? Explain in detail its types. 6M

OR

- 8 a. Explain Time-Stamp based protocols and Thomas Write Rule protocols. 6M
 b. Explain ARIES algorithm. 6M

UNIT-V

- 9 Explain about RAID levels. 12M

OR

- 10 a. Explain the differences between static hashing and dynamic hashing. 6M
 b. Discuss about file organizations and indexing? 6M

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