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Reg. No: ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Supplementary Examinations February-2022
DATABASE MANAGEMENT SYSTEMS
(Common to CSE & CSIT)

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1	a	Draw ER diagram for Ternary Relationship set with suitable example.	7M
	b	Discuss about key constraints for Ternary Relationships.	5M

OR

2	a	What is Data Abstraction? Explain about different views of data.	6M
	b	Define Instance and Schema. List different data models and explain.	6M

UNIT-II

3	What is a join operator? Explain about conditional join and natural join with syntax and example.	12M

OR

4	a	Explain in detail about nested queries.	6M
	b	Explain about aggregate operators.	6M

UNIT-III

5	a	Prove that a relation which is in 4NF must be in BCNF.	6M
	b	Define and explain 4NF with suitable example.	6M

OR

6	a	Discuss about super key and candidate key in functional dependency with suitable example.	5M
	b	What is meant by multivalued dependency? Explain with example.	7M

UNIT-IV

7	Explain Lock based concurrency control protocols.	12M

OR

8	What is database Recovery? Explain Shadow paging in detail.	12M

UNIT-V

9	a	Illustrate Tree indexes.	6M
	b	Explain about ISAM.	6M

OR

10	Explain about RAID levels in detail with neat sketch.	12M

*** END ***