R19

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Regular Examinations Feb-2021
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	Write about logical database design (ER to Relational) with suitable examples.	4M
	b	Give an example of an Attribute and List various types of attributes.	4M
	c	Define Relationship set.	4M

OR

2	a	Describe truncating a table and dropping a table.	6M
	b	Implement the DML Commands – Insert, Select Commands, and update & delete Commands.	6M

UNIT-II

3	a	Illustrate project, join, select and product set operators with examples.	6M
	b	Describe the SET operators with examples.	6M

OR

4		Define Join. Explain different types of joins in detail.	12M

UNIT-III

5	a	Explain the following with suitable examples: (i) Non- Loss decomposition (ii) Prime Attributes	6M
	b	Illustrate redundancy and the problems that it can cause.	6M

OR

6	a	Define functional dependencies. How are primary keys related to FD's?	6M
	b	What is redundancy? What are the problems caused by the redundancy?	6M

UNIT-IV

7	a	Demonstrate Conflict Serializability.	6M
	b	Illustrate Concurrent execution of transaction with examples.	6M

OR

8		Determine the deadlock and 2-phase locking to ensure serializability in concurrency control with locking methods.	12M

UNIT-V

9	a	Explain different types of locks.	6M
	b	Describe Times tamp based locking protocols.	6M

OR

10	a	What are the factors to be taken into account when choosing a RAID level?	6M
	b	Distinguish between fixed length records and variable length records.	6M

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