

Reg. No:

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

B.Tech II Year I Semester Supplementary Examinations December-2021 DATABASE MANAGEMENT SYSTEMS

(Common to CSE & CSIT)

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T	ime: 3 hours	ıx. Mar	ks: 60
	(Answer all Five Units $5 \times 12 = 60$ Marks)		
	UNIT-I		
1	a Define Database? Discuss about applications of Database Systems.	L1	6M
	b List out the purpose of Database Systems.	L2	6M
	OR		
2	Explain about Database languages with examples?	L2	12M
	UNIT-II		
3	a Distinguish between two set theoretic operations of relational algebra with an example.	L1	6M
	b To establish the WHERE, ANY, AS and ALL sub queries with example. OR	L3	6M
4	a Illustrate project, join, select and product set operators with examples.	L2	6M
	b Describe the SET operators with example.	L1	6M
	UNIT-III		
5	What is Normalization? Explain in detail 1NF, 2NF, 3NF, BCNF with example.	L1	12M
	OR		
6	a Explain the following with suitable example: (i) Non- Loss decomposition. (ii) Prime Attributes.	L3	6M
	b Illustrate redundancy and the problems that it can cause UNIT-IV	L2	6M
7	a Define a Transaction? List the properties of transaction.	L3	6M
,	b Write briefly about serializability with example.	L3	6M
	OR		OIVI
8	Discuss various concurrency control protocols.	L2	12M
	UNIT-V		
9	a What are the types of storage devices?	L1	6M
	b Explain Buffer Management in concurrency control system OR	L2	6M
10	a Explain how recovery is done using undo logging and redo logging.	L3	6M
	b Which level of RAID is best? Why?	L1	6M

*** END ***