Q.P. Code: 20CS0505

Reg. No:

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

B.Tech II Year I Semester Regular & Supplementary Examinations March-2023 DATABASE MANAGEMENT SYSTEMS

(Common to CSE, CSIT, CAD & CSM)

	Time: 3 hours	Max. Marks: 60			
	(Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I				
1	 a Define Database. Discuss about applications of Database Systems. b List out the purpose of Database Systems. OR 	CO1	L1 L1	6M 6M	
2	 a Create the DDL Commands – Table Creation, Altering the table structures, truncating a table and dropping a table. b Develop the DML Commands – Insert, Select Commands, update& delete 	CO1	L6 L6	6M	
	Commands.	GOI	LO	OIVI	
	UNIT-II				
3	a Discuss about Complex integrity constraints in SQL.	CO1	L2	6M	
	b Create a sub query to establish the WHERE, ANY, AS and ALL sub queries with example.	CO1	L6	6M	
	OR				
4	a Illustrate Set comparison operator.	CO1	L3	6M	
	b Distinguish different types of aggregate operators with examples in SQL. UNIT-III	CO1	L5	6M	
5	a Illustrate redundancy and the problems that it can cause.	CO3	L2	6M	
	b Explain about Functional Dependency.	CO3	L3	6M	
	OR				
6	a What is the use of Fourth normal form? Explain by listing some of its major advantages.	CO3	L2	6M	
	b Differentiate between about 4NF/MVD with example. UNIT-IV	CO3	L4	6M	
7	Explain ACID properties and illustrate them through examples.	CO4	L2	12M	
	OR				
8	a Illustrate Concurrent execution of transaction with examples.	CO5	L3	6M	
	b Discuss various concurrency control protocols. UNIT-V	CO5	L2	6M	
9	Identify the two phase locking protocol and strict two phase locking protocols. OR	CO5	L3	12M	
10	a What are the overview of physical storage media?	CO6	L1	6M	
	b Explain about failure with loss of non-volatile storage.	CO6	L2	6M	

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