SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Regular& SupplementaryExaminations June-2024
DATABASE MANAGEMENT SYSTEMS
(Common to CIC & CCC)

Time: 3 Hours   Max. Marks: 60

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

UNIT-I

1	a	Define Database. Discuss about applications of Database Systems.	CO1	L1	6M
	b	List out the purpose of Database Systems.	CO1	L1	6M

OR

2	a	Explain the Architecture of Database with a neat diagram.	CO1	L2	6M
	b	Differentiate between Database users and administrators.	CO1	L4	6M

UNIT-II

3	a	Compare Selection and Projection.	CO2	L5	6M
	b	Develop the working on union, intersection and minus operations.	CO3	L6	6M

OR

4	a	Discuss the super key, candidate key, primary key, alternate key ,composite key , and Foreign key.	CO2	L2	6M
	b	Evaluate Order by, Group by and Having Clauses with example.	CO2	L5	6M

UNIT-III

5	a	Compare 3NF and BCNF with example.	CO3	L4	6M
	b	The relation schema Student_Performance (name, courseNo, rollNo, grade) has the following FDs: name,courseNo->grade rollNo,courseNo->grade name->rollNo rollNo->name What is the highest normal form of this relation scheme?	CO3	L1	6M

OR

6	a	Illustrate redundancy and the problems that it can cause.	CO3	L3	6M
	b	Explain about Functional Dependency.	CO3	L2	6M

UNIT-IV

7		Explain ACID properties and illustrate them through examples.	CO5	L2	12M

OR

8	a	Compare serializibility and non-serializibility	CO5	L5	6M
	b	List out the types of failures.	CO5	L4	6M

UNIT-V

9	a	Discuss about Recoverability.	CO6	L2	6M
	b	Explain Recovery with concurrent Transaction.	CO6	L2	6M

OR

10	a	Classify different types of locks.	CO6	L4	6M
	b	Describe the deadlock prevention schemes.	CO6	L2	6M

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