

Code: 20EC4702D

IV B.Tech - I Semester – Regular Examinations - DECEMBER 2023

**DATABASE MANAGEMENT SYSTEMS
(ELECTRONICS & COMMUNICATION ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	a)	What are the different types of database end users? Select the main activities of each.	L2	CO1	7 M
	b)	Illustrate the characteristics that should be provided by a DBMS.	L2	CO1	7 M
OR					
2	a)	Explain about database schema, instance & Database state.	L2	CO1	7 M
	b)	Illustrate DBMS component modules.	L2	CO1	7 M
UNIT-II					
3	a)	Explain about key constraints in SQL.	L2	CO2	7 M
	b)	Write about Assertions.	L2	CO2	7 M

OR					
4	a)	Explain about Triggers.	L2	CO2	7 M
	b)	Illustrate views in SQL.	L3	CO2	7 M
UNIT-III					
5	a)	Explain in detail entities and attributes.	L2	CO4	7 M
	b)	Write about high level conceptual data models for database design.	L2	CO4	7 M
OR					
6	a)	Illustrate relationship sets.	L3	CO4	7 M
	b)	Explain in detail ER conceptual schema design for the company database.	L2	CO4	7 M
UNIT-IV					
7	a)	Discuss about functional dependencies.	L2	CO3	7 M
	b)	Illustrate Second normal form in database.	L3	CO3	7 M
OR					
8	a)	Write in detail BCNF.	L2	CO3	7 M
	b)	Explain the practical use of normal forms.	L2	CO3	7 M

UNIT-V

9	a)	Explain in detail Two phase locking.	L2	CO1	7 M
	b)	Discuss schedules of a Transaction.	L2	CO1	7 M

OR

10	a)	Write about Read and Write operations in transaction processing.	L2	CO1	7 M
	b)	How schedules are Characterized based on Recoverability?	L3	CO1	7 M