III B. TECH II SEMESTER REGULAR EXAMINATIONS APRIL - 2023 DATABASE MANAGEMENT SYSTEMS (CIVIL ENGINEERING)

Time: 3 hours Max. Marks: 70

		Note: Answer ONE question from each unit (5 × 14 = 70 Marks)	
		UNIT-I	
1.	a)	What is Data modeling? Explain relational model.	[7M]
	b)	Explain storage manager component.	[7M]
		(OR)	
2.	a)	Differentiate between File system and Database System.	[7M]
	b)	Demonstrate the activities of different database users.	[7M]
		UNIT-II	
3.	a)	Explain Weak Entity set with example.	[7M]
	b)	Explain different types of attributes in DBMS.	[7M]
		(OR)	
4.	a)	Summarize the features of ER Model with suitable example.	[7M]
	b)	Write in detail about different types of constraints.	[7M]
		UNIT-III	
5.	a)	Discuss in detail the set operations with suitable example.	[7M]
	b)	Discuss the simple and complex queries using relational algebra.	[7M]
		(OR)	
6.	a)	Write and explain the structure of SELECT statement with suitable example.	[7M]
	b)	Describe inner join and outer join with example.	[7M]
		UNIT-IV	
7.	a)	Write short notes on (i) DDL (ii) DML (iii) DCL.	[7M]
	b)	Explain different types of quires with example.	[7M]
		(OR)	
8.	a)	What is NULL? What is its importance? How are these values handled in relational model?	[7M]
	b)	What is the difference between DELETE, TRUNCATE and DROP statements in SQL?	[7M]
		UNIT-V	
9.	a)	What is multi valued dependency? Illustrate 4NF with an example.	[7M]
	b)	Why normalization is needed? Explain the process of normalization. (OR)	[7M]
10.	a)	What is meant by the closure of functional dependencies? Illustrate with an example.	[7M]
	b)	Illustrate various normal forms.	[7M]
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