H.T.No: | | | | | | | | | | |

Course Code: **201CS4T06**

ADITYA ENGINEERING COLLEGE (A)

DATABASE MANAGEMENT SYSTEMS
(Common to CSE & IT)

Time: 3 hours **Max. Marks: 70**

Answer ONE question from each unit
All Questions Carry Equal Marks
All parts of the questions must be answered at one place only

UNIT – I					
1	a	Discuss various data models with a neat diagram.	K2	CO1	[7M]
	b	Explain Database System Structure.	K2	CO1	[7M]
		OR			
2	a	Illustrate Three Schema Architecture.	K2	CO1	[7M]
	b	Explain various Database users.	K2	CO1	[7M]
UNIT – II					
3	a	What is the importance of null values in a relation.	K1	CO2	[7M]
	b	Demonstrate Integrity Constraints in Relational Model	K1	CO2	[7M]
		OR			
4	a	Explain about Select clause in SQL with an example.	K2	CO2	[7M]
	b	What are the different operators in SQL? Explain with an example	K2	CO2	[7M]
UNIT – III					
5	a	Explain the Concept of inheritance	K2	CO2	[7M]
	b	Compare generalization and specialization.	K3	CO2	[7M]
		OR			
6	a	What are the different types of Joins? Explain with an example.	K2	CO3	[7M]
	b	Explain the concept of view.	K2	CO3	[7M]
UNIT – IV					
7	a	Explain 3NF with an example.	K2	CO4	[7M]
	b	What are the properties of decomposition?	K2	CO4	[7M]
		OR			
8	a	What is schema refinement? Explain with an example.	K2	CO4	[7M]
	b	Explain BCNF with an example.	K2	CO4	[7M]
UNIT – V					
9	a	Explain ACID Properties with an example.	K2	CO5	[7M]
	b	What are the anomalies of concurrent execution	K2	CO5	[7M]
		OR			
10	a	Explain primary and secondary indexes.	K2	CO3	[7M]
	b	Compare Hash based indexing and tree based indexing	K3	CO3	[7M]

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