Code No: R20A0551

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
II B.Tech II Semester Regular/Supplementary Examinations, July 2023
Introduction to DBMS
(EEE, ME, ECE & AE)

Roll No										

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

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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		SECTION-I	**Marks**
1	**A**	Compare and Contrast file Systems with database systems?	**[7M]**
	B	Explain different types of database users and write the functions of DBA?	**[7M]**
		OR	
2	**A**	Discuss about different types of Data models?	**[7M]**
	B	Explain Three schema Architecture of a database	**[7M]**
		SECTION-II	
3	**A**	What is Super key? Explain with example	**[7M]**
	B	Define view? Explain views with examples?	**[7M]**
		OR	
4	**A**	Demonstrate Foreign key constraints with suitable examples	**[7M]**
	B	Explain Integrity constraints with examples	**[7M]**
		SECTION-III	
5	**A**	Describe various types of outer joins with examples	**[7M]**
	B	Explain the set operations of SQL?	**[7M]**
		OR	
6	**A**	List and explain the aggregate functions supported by SQL with examples	**[7M]**
	B	Demonstrate various types of E-R Diagram Notations.	**[7M]**
		SECTION-IV	
7	**A**	Describe the concept of functional dependency and explain computation of closure of F.	**[7M]**
	B	Discuss ACID properties with examples	**[7M]**
		OR	
8	**A**	Explain problems caused by Redundancy with examples	**[7M]**
	B	i. Define Third normal form and Transitive dependency.	**[7M]**
		ii. Define Second normal form and Partial dependency.	
		SECTION-V	
9	**A**	Explain conflict serializability with example	**[7M]**
	B	Describe Timestamp based locking protocols?	**[7M]**
		OR	
10	**A**	Sketch the transaction state and explain in detail.	**[7M]**
	B	What is a transaction? Explain desirable properties of transactions.	**[7M]**

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