R17

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
II B.Tech II Semester Supplementary Examinations, April 2023
Database Systems
(ME & ECE)

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.

***

SECTION-I
1	a)	Describe the Architecture of a database?	**[10M]**
	b)	Mention the users of Database in detail?	**[4M]**
		OR	
2	a)	List and write about DBMS Languages?	**[7M]**
	b)	Write about the role of DBA?	**[7M]**

SECTION-II
3		Define and Give example for the following?	
		a)Primary Key	**[4M]**
		b)Super key	**[3M]**
		c) Candidate key	**[4M]**
		d)Attribute	**[3M]**
		OR	
4		a) What is a Trigger? Discuss triggers in detail?	**[7M]**
		b) Define Schema? Explain Representation of Various ER Schemas.	**[7M]**

SECTION-III
5		a) Write about the following set operations?	**[9M]**
		i)UNION, ii) INTERSECT, and iii)EXCEPT	
		b) Write the query to create a table	**[5M]**
		OR	
6		a) Explain aggregate functions with examples?	**[9M]**
		b) Discuss NULL Values in SQL?	**[5M]**

SECTION-IV
7	a)	Explain lossless-join decomposition?	**[7M]**
	b)	Discuss Boyce/Codd normal form with example?	**[7M]**
		OR	
8	a)	Write about Multi-valued dependencies & Join dependencies?	**[7M]**
	b)	Explain 2NF and 3NF with examples?	**[7M]**

SECTION-V
9	a)	Explain Serializability with example?	**[7M]**
	b)	Write about implementation of isolation?	**[7M]**
		OR	
10	a)	Explain Testing for serializability in topological sorting?	**[7M]**
	b)	Write and explain transaction concept with example?	**[7M]**

****