

MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

II B.Tech II Sem Supply End Examination, March 2022 Database Management Systems (CSE & IT)

Time: 3 Hours.

Max. Marks: 70

Note: 1. Answer any FIVE questions.

2. Each question carries 14 marks and may have a, b as sub questions.

1	a)	What is a data model? What are the different data models? Explain E-R model and relation model briefly	7M	CO1	BL4
	b)	Define DBMS? Explain in brief about the structure of DBMS?	7M	C01	BL4
2	a)	What are the application programs? Explain database access for application programs.	7M	CO1	BL4
	b)	What is null attribute? With suitable diagram explain weak and strong entity set	7M	C01	BL4
3	a)	Discuss in detail about the properties of relation algebra.	7M	CO2	BL2
	b)	How we can convert relationship sets with key constraints into tables? Explain.	7M	CO2	BL1
4	a)	How we can translate E-R diagram with aggregation? Explain	7M	CO2	BL4
	b)	Explain different normal forms based on functional dependencies	7M	CO3	BL4
5	a)	Explain about dependency preserving decomposition.	7M	CO3	BL4
	b)	Define Normal form? Explain in brief about types of Normal forms?	7M	CO3	BL4
6	a)	How the lock manager implements lock and unlock requests? Explain.	7M	CO4	BL4
	b)	What is schedule? Explain about serial and non serial schedule	7M	CO4	BL4
7	a)	Describe in brief about Time based protocols?	7M	CO4	BL2
	b)	What is meant by extendable hashing? How it is different from linear hashing?	7M	CO5	BL2
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8	a)	What are the indexed data structures? Explain any one of them	7M	CO5	BL4
	b)	Describe in brief about Indexed Sequential Access Methods	7M	CO5	BL2