Course Code: 2040503 Roll No: MLRS-R20



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 Regular End Examination, July 2022 Database Management Systems (CSM)

Time: 3 Hours.

5

Max. Marks: 70

Note: 1. Question paper consists: Part-A and Part-B.

2. In Part – A, answer all questions which carries 20 marks.

3. In Part – B, answer any one question from each unit.

Each question carries 10 marks and may have a, b as sub questions.

PART-A

(10*2 Marks = 20 Marks)

B4

10M

CO2

				(10*2 Marks =	2 Marks = 20 Marks)		
	1. a	a)	What is data model?	2M	CO1	BL1	
	b	0)	Define aggregation.	2M	CO1	BL1	
	С	c)	Identify integrity constraints.	2M	CO2	BL1	
	d	d)	What is Cardinality Ratio?	2M	CO2	BL1	
	e	e)	State advantages of Normal forms.	2M	CO3	BL1	
	f	f)	Explain simple query structure in SQL.	2M	CO3	BL4	
	g	g)	Define checking point.	2M	C04	BL1	
	h	h)	What is starvation?	2M	C04	BL1	
	i	i)	Identify different indexing techniques.	2M	C05	BL1	
	j	j)	Define hashing.	2M	CO5	BL1	
			PART- B				
				(10*5 Marks =	(10*5 Marks = 50 Marks)		
2	а	a)	What is DBA? Explain its role in detail.	5M	CO1	BL4	
	b	0)	Explain ER diagram and relationships with example.	5M	CO1	BL4	
	b	0)	Explain ER diagram and relationships with example. $\label{eq:order} \textbf{OR}$	5M	CO1	BL4	
3		0)		5M 10M	CO1	BL4	
3		o)	OR	v.		BL4	
3		a)	OR	v.			
	a		OR Outline DBMS architecture with a neat sketch.	10M	C01	BL4	

OR

Explain syntax and semantics of Tuple Relational Calculus.

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6	a)	Explain set manipulators in SQL.	5M	CO3	BL4				
	b)	Explain inner and outer join operations in SQL.	5M	CO3	BL4				
		OR							
7		Explain third normal form and BCNF with suitable examples.	10M	CO3	BL4				
8	a)	Demonstrate ACID properties of transaction.	5M	CO4	BL6				
	b)	Explain shadow copy scheme in detail.	5M	C04	BL4				
		OR							
9		Analyze deadlock recovery techniques.	10M	CO4	BL4				
10	a)	Compare clustered Vs Un clustered indexing.	5M	CO5	BL2				
	b)	Explain linear hashing in detail.	5M	CO5	BL4				
OR									
11		Indentify and explain the file organization techniques.	10M	CO5	BL4				

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