Course Code: 1940517 Roll No: MLRS-R19



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, July 2022 Database Management Systems (CSE & IT)

Time: 3 Hours.

Max. Marks: 70

(10*2 Marks = 20 Marks)

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

a) Explain about Disadvantages of file system.

examples

- 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 Mai RS = 20 Mai RS)				
1.	a)	Define (i) Database (ii) DBMS		2N	1	C01	BL1
	b)	List the database Applications?		2N	1	CO1	BL1
	c)	Define primary key		2M	1	CO2	BL1
	d)	Write example of candidate key		2M	1	CO2	BL1
	e)	Write a syntax for View		2M	1	CO3	BL1
	f)	Define trigger and list it three parts		2M	1	CO3	BL1
	g)	List the properties of Transaction		2N	1	CO4	BL1
	h)	Define Compatibility Function		2N	1	CO4	BL1
	i)	Define Secondary indexes		2N	1	CO5	BL1
	j)	List various types of Failures.		2N	1	CO5	BL1
DADT. B							

PART-B

(10*5 Marks = 50 Marks)

5M

5M

CO1

CO2

BL4

BL₂

_	٠,	Emplant about 2 loan value got of the officers.			
	b)	Define Data Model. Explain various types of Data Models in DB systems.	5M	C01	BL4
		OR			
3		Construct an E-R diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted.		C01	BL6
4	a)	Write about views and updates on views?	5M	CO2	BL1

b) Differentiate Nested Queries and Correlated Queries with suitable

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5		Define a nested query? Consider the following schema Sailors (sid: integer, sname: string, rating: integer, age: integer) Reserves (sid: integer, bid: integer, day: date) Boats (bid: integer, bname: string, color: string) b. Write a nested query to find the names of sailors who have reserved both a red and green boat? c. Write a nested query to find the names of sailors who have reserved all boats?	10M	CO2	BL1		
6	a)	Differentiate row level and statement level triggers?	5M	CO3	BL2		
	b)	List the aggregate functions with suitable examples	5M	C03	BL1		
		OR					
7		Define normalization? Explain 1NF, 2NF, 3NF Normal forms?	10M	CO3	BL4		
8	a)	Discuss about non recoverable and recoverable schedules	5M	CO4	BL2		
	b)	Illustrate Concurrent execution of transaction with examples?	5M	CO4	BL3		
OR							
9		Explain ACID properties and Illustrate them through examples?	10M	CO4	BL4		
10	a)	Discuss about different categories of storage?	5M	CO5	BL2		
	b)	Explain B+ trees? Discuss about this Dynamic Index Structure?	5M	CO5	BL4		
OR							
11		Classify different types of failures in DBMS. Explain.	10M	CO5	BL2		

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