Hall Ticket No.:												SRIT R19
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SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

II B. Tech I Sem – Continuous Internal Examinations I – Mar 2021

DATABASE MANAGEMENT SYSTEMS [194GA05302]

(Computer Science and Engineering)

Time: 2 hours SET – 1 Max. Marks: 30

Answer the following questions

Q.	No	Questions	Unit	Marks	СО	Cognitive Level						
	a)	Mention the main differences between trivial and non-trivial dependencies.	3	2	2	Remember						
1	b)	State Thomas' write rule.	2	3	Remember							
	c)	What is MTTF?	5									
		UNIT-3										
2	Exp	lain 1NF, 2NF, 3NF and 4NF with suitable example.		8	2	Apply						
OR												
3	2	Apply										
		UNIT-4										
4	a)	Explain about how concurrency can be controlled using time st methods with an example.	amp	4	3	Apply						
4	b)	Illustrate validation based Protocols with a suitable example.		4	3	Apply						
		OR										
5	Exp	lain storage structure and their access methods in detail.		8	5	Understand						
•		UNIT-5										
6		lain about $B+$ - tree file organization with its data structure, seartion operations.	8	6	Apply							
OR												
7	a)	Distinguish between Extendible and Linear Hashing with an example.		4	6	Apply						
/	b)	Illustrate static and dynamic hashing techniques with an examp	ole.	4	6	Apply						

Prepared by

Name of the Faculty: Mr. M. Narasimhulu, Assistant Professor, CSE

Signature of the Faculty:

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SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

II B. Tech I Sem – Continuous Internal Examinations I – Mar 2021

DATABASE MANAGEMENT SYSTEMS [194GA05302]

(Computer Science and Engineering)

Time: 2 hours SET – 2 Max. Marks: 30

Answer the following questions

Answer the following questions														
Q. No		Questions	Marks	СО	Cognitive Level									
	a)	What are the anomalies in bad design of database?	2	2	Remember									
1	b)	Draw the state diagram of the transaction.	2	3	Remember									
	c)	What is RAID?	5	2	5	Remember								
	UNIT-3													
2	ACD-	of FD's for the relation R $\{A, B, C, D, E, F\}$ is A \rightarrow B, BE \rightarrow C, EC \rightarrow FA, FC \rightarrow BD, and D \rightarrow E. Find to of FD's?	8	2	Apply									
OR														
3	a)	Define BCNF. How does BCNF differ from 3N example	IF? Explain with an	4	2	Apply								
3	b)	Illustrate Multi-valued dependencies and Fourtan example.	4	2	Apply									
		UNIT-	4											
4	a)	Illustrate Failure Classification of all storage de	evices.	4	5	Understand								
4	b)	Explain Remote backup Systems.	4	5	Understand									
		OR												
5	Illustra	te multiple granularity locking algorithm with a	8	3	Apply									
		UNIT-	5											
6	Illustra	te about B+ tree index file with a suitable examp	8	6	Apply									
	•	OR		•	•									
7	a)	Explain static and dynamic hashing techniques	4	6	Understand									
7	b)	Illustrate about clustered, primary and secondar	ry indices in detail.	4	6	Understand								

Prepared by

Name of the Faculty: Mr. M. Narasimhulu, Assistant Professor, CSE

Signature of the Faculty: