

R17

Code No: 843AA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, July/August - 2021 DATA BASE MANAGEMENT SYSTEMS

Time: 3 Hours Max.Marks:75

Answer any five questions All questions carry equal marks

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1.a) b)	Explain about various data models. Discuss about database users and administrators.	[8+7]
2.a) b)	Draw ER diagram for Ternary Relationship set with suitable example. Discuss about key constraints for Ternary Relationships.	[8+7]
3.	Discuss about Complex integrity constraints in SQL.	[15]
4.a) b)	Explain about tuple relational calculus. Discuss about the expressive power of relational algebra and calculus.	[8+7]
5.a)	Define Third Normal Form and explain with example.	
b)	Explain about Loss less-join decomposition.	[8+7]
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6.	Describe Validation-based locking protocols.	[15]
7.	Explain advanced recovery techniques.	[15]
8.a)	Explain about B+ tree index file. Illustrate deletion of an element in B+ T example.	ree with
b)	Explain in detail about Extendible hashing.	[8+7]

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