FirstRanker.com
Firstranker's choice
www.FirstRanker.com www.FirstRanker.com

Code No: 843AA **R17**

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
\- - -

1.a) Explain about various data models.
b) Discuss about database users and administrators. [8+7]

2.a) Draw ER diagram for Ternary Relationship set with suitable example.
b) Discuss about key constraints for Ternary Relationships. [8+7]

3. Discuss about Complex integrity constraints in SQL. [15]

4.a) Explain about tuple relational calculus.
b) 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]

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+ Tree with example.
b) Explain in detail about Extendible hashing. [8+7]

--ooOoo--

FirstRanker.com
Firstranker's choice
www.FirstRanker.com