

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)

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IV B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS, OCTOBER - 2017**SUBJECT: Data Base Security****(BRANCH: CSE)****Time: 3 Hours****Max Marks :75****Answer any FIVE Questions of the following****5x15M=75M**

1. a) What is the importance of database security? State and explain data base security levels with a neat diagram? [8 M]
b) What are the categories of database security threats explain briefly? [7 M]
2. Explain the following security models for distributed databases?
a) Bussolati security model. [8 M]
b) Martells's security model. [7 M]
3. a) Briefly explain a bout Lattice-Based Access Control (LBAC) Model for flow control conclusion? [8 M +7 M]
b) Write short notes on View Formal Security Policy Model?
4. a) What is meant by user identification/ authentication? Explain about authentication mechanisms in detail? [8 M]
b) What is memory protection? Explain about memory protection unit in detail? [7 M]
5. a) Explain the security mechanism of ORACLE database in detail? [8 M]
b) How DB2 offers security mechanism to users? Explain briefly? [7 M]
6. a) Write short notes on statistical-database protection mechanisms briefly? [7 M]
b) List and explain the fundamental statistical queries with examples? [8 M]
7. a) What is a frame based system? Explain in detail about frame based systems protection model
b) What are the three types of classification constraints explain briefly? [8 M+7 M]
8. a) Explain about ORION model for protection of New Generation Database Systems? [8 M]
b) State and Explain the message filter algorithm briefly? [7 M]