

R09

Code: 9A05401

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017

DATABASE MANAGEMENT SYSTEMS

(Electronics & Computer Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain how to transform raw data into information.
(b) Describe the extended relational data model (ERDM) with suitable examples.
- 2 (a) Explain about ternary relationship and key constraints for ternary relationship.
(b) Illustrate primary key and super key with example.
- 3 (a) What is a join? What is the difference between left and right outer joins? Explain with examples.
(b) Explain how the rules of integrity are applied on relational database.
- 4 (a) Explain how to order a list in advanced select query and how to list the unique values in them.
(b) What is a stored procedure? Explain with example.
- 5 (a) What is meant by the completeness and soundness of Armstrong's interference rules?
(b) Consider a relation R {A, B, C, D, E} with the following dependencies.
AB→C, CD→E, DE→B is AB a candidate key of this relation? If not, is ABD? Explain your answer.
- 6 Explain about deadlock and 2-phase locking to ensure serializability in concurrency control with locking methods.
- 7 (a) Discuss how the recovery can be done with concurrent transaction?
(b) Explain clearly about the concept ARIES and its features?
- 8 Explain multi - key file organization in detail?
