

B.Tech IV Year II Semester (R07) Supplementary Examinations April 2016

DATABASE MANAGEMENT SYSTEMS

(Electrical & Electronics Engineering)

(For 2008 regular admitted batch only)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Mention and explain various database users.
(b) Explain the differences between a file-oriented systems and database oriented systems.
- 2 Explain with suitable examples the relational algebra operators of:
(a) Theta join.
(b) Equi join.
(c) Natural join.
(d) Division.
(e) Project.
- 3 (a) Explain about correlated Nested queries and aggregate operators in SQL with example.
(b) Discuss about Triggers.
- 4 (a) Give a relation which is BCNF but not 3NF.
(b) Write short notes on multivalued dependency
- 5 (a) Illustrate the concept of lost update problem and inconsistent read problem with respect to concurrency control.
(b) Explain ACID properties.
- 6 (a) Explain in detail about log based recovery.
(b) Discuss deadlocks in details.
- 7 What are indexed files? What are the strategies used to search an index of an indexed file organization?
- 8 (a) Explain static hashing.
(b) Explain how insertion and deletion operations are performed on B+ tree with examples.
