

B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2017

DATABASE MANAGEMENT SYSTEMS

(Common to CSS, IT & CSE)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) List out different databases and explain.
(b) Explain basic building blocks of data model.
- 2 (a) What are the differences between composite and simple attributes? Explain with examples.
(b) Distinguish between primary key and foreign key with example.
- 3 (a) Explain about project, join, select and product set operators with examples.
(b) Discuss about relational data structure with diagram and example.
- 4 (a) What is data definition language? What are the commands that are performed in this language?
(b) Explain about WHERE, ANY and ALL sub queries with example.
- 5 What is Normalization? Explain the process of Normalization with suitable examples.
- 6 (a) Explain the terms binary lock, shared lock and exclusive lock.
(b) Explain about lock granularity and lock types in concurrency control.
- 7 (a) Explain about failure with loss of nonvolatile storage.
(b) What are the methods that are used in log based recovery?
- 8 (a) What is B-Tree?
(b) What are the advantages, disadvantages and applications of B-Tree?
