Code: EE7T5C

IV B.Tech - I Semester – Regular Examinations – October - 2017

DATABASE MANAGEMENT SYSTEMS
(ELECTRICAL & ELECTRONICS ENGINEERING)

Duration: 3 hours   Max. Marks: 70

PART – A

Answer **all** the questions.   All questions carry equal marks

                                        11 x 2 = 22

1.
   a) What is DBMS?
   b) Explain about Data Independence.
   c) List the conditions that establish relationship between weak entity type and strong Entity type.
   d) Show an example for Roles.
   e) What is the difference between table and view?
   f) What is SQL and what does it do?
   g) What are the advantages of using SQL?
   h) What is Normal form in DBMS?
   i) What is No partial dependency?
   j) How Transaction support in SQL?
   k) Why do we need concurrency control?

PART – B

Answer any ***THREE*** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Discuss about Database Languages and Interfaces.   8 M

    b) Explain Centralized and Client-Server Architecture for
      DBMS.   8 M

3. a) Discuss about Relationship types of Degree higher than
      two.   8 M

    b) Design ER Conceptual schema diagram for the library
      database.   8 M

4. a) Discuss about Relation model concepts.   8 M

    b) Illustrate various types of constraints on relations.   8 M

5. a) Explain Normal forms based in primary keys.   8 M

    b) Discuss about Boyce-codd Normal form with an example.
    8 M

6. a) What are the desirable properties of transactions?   6 M

    b) Discuss about Two-Phase locking techniques for
      concurrency control.   10 M