Code: 9A05401

B.Tech II Year II Semester (R09) Supplementary Examinations December/January 2015/2016
DATABASE MANAGEMENT SYSTEMS
(Electrical & Electronics Engineering)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1 (a) Discuss about the relational database management system.
   (b) What is hierarchical model? Explain with examples.

2 (a) What kind of data would you store in an entity subtype?
   (b) Explain the M:N relationship using composite primary key with example.

3 (a) Explain about data dictionary and system catalog.
   (b) List and explain the relational set operators used in relational database.

4 (a) What are SQL constraints? Explain.
   (b) Consider an employee table and perform queries on that table using group by and having clauses.

5 (a) A Relation R (A, B, C, D) has FD C->B. is in 3NF? Justify your answer.
   (b) A Relation R (A, B, C,) has FD's A -> AC, is R is in 3NF? Does AC -> C? Justify your answer.

6   Explain about:
   (a) Transaction recovery.
   (b) 2-phase locking.
   (c) Inconsistent retrieval.
   (d) Scheduler.

7 (a) Explain how the immediate database modifications and deferred database modifications are used.
   (b) Discuss how the recovery can be done with concurrent transaction.

8 (a) Explain abut hash based recovery.
   (b) Describe the structure of magic disks.

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