Code: R7410302

R07

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013
**DATABASE MANAGEMENT SYSTEMS**
(Common to ME and ECC)

Time: 3 hours                                                                       Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks
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1   (a)   What are the components in ER model? Explain.
    (b)   Explain how the ER models produce a more structured relational data base design environment.

2   (a)   List and explain steps to develop an ER diagram for a university.
    (b)   What is an overlapping subtype? Give an example.

3   (a)   What are the integrity rules that are used for the relational database model? Explain with an example.
    (b)   Explain about the 1:1 and 1:M relationship in relational database.

4   (a)   What is a sub query? What are its characteristics?
    (b)   Create a table and write queries to count number of elements and to display first and last element in a selected column.

5   Explain 4NF. Why it is useful? Explain with an example.

6   (a)   Explain about inconsistent retrieval and uncommitted data in concurrency control.
    (b)   Explain about transaction recovery in database recovery management.

7   (a)   Explain about buffer management in details.
    (b)   What is fuzzy check pointing and transaction roll back? Explain.

8   (a)   Explain the distinction between closed and open hashing.
    (b)   Discuss the relative merits of each technique in database applications.

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