JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA-III Semester Regular Examinations, February 2010
DATABASE MANAGEMENT SYSTEMS

Time: 3hours   **Max.Marks:60**

Answer any Five questions
All questions carry equal marks

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1.a) What is data abstraction? Describe various levels in it.
   b) Differentiate between DML and DDL.

2. Define and explain about domain relational calculus. Give example queries in it.

3.a) Explain built-in aggregate functions in SQL. Also give example for each.
   b) Explain various domain types in SQL.

4. Define third normal form. Give an algorithm for finding dependency- preserving lossless-join decomposition into 3NF. Explain with an example.

5.a) Discuss about transaction-support in SQL.
   b) Explain the ACID properties of transaction in detail.

6.a) Elaborate on Media recovery.
   b) Discuss about crash recovery in detail.

7. Discuss various methods of file organization in detail.

8. Write short notes on the following:
   a) Static Hashing   b) Log-based recovery   c) Integrity constraints

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