NR

Code No: A0506, A5806

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I Semester Examinations, October/November-2011
DATABASE MANAGEMENT SYSTEMS
(COMMON TO COMPUTER SCIENCE, COMPUTER SCIENCE & ENGINEERING)

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

Answer any five questions
All questions carry equal marks

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1. (a) Explain the Database system structure.
   (b) Discuss conceptual database design for large enterprises. [6+6]

2. (a) What is a view? Discuss its role in Database security.
   (b) Explain in detail the Division operation in Relational Algebra. [6+6]

3. (a) Compare Nested query and correlated query. Discuss suitable examples.
   (b) What is a Trigger? How do they enforce Integrity constraints? [6+6]

4. (a) Describe Multi -valued dependencies with examples.
   (b) Explain the problems caused by Redundancy. [6+6]

5. (a) What is a schedule? Explain the distinction between the terms serial schedule and serializable schedule.
   (b) Discuss about the performance of locking. [6+6]

6. (a) Explain Dead lock prevention policies employed in databases.
   (b) Briefly discuss write ahead log protocol. [6+6]

7. (a) What is an index? Differentiate between Sparse and dense indices.
   (b) Make a comparison of Sorted file organization with heap file organization. [6+6]

8. (a) Write a detail note on Buffer management.
   (b) Explain delete operation on B+ tree structure. [6+6]

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