

Code No: R059210506

Set No. 1

II B.Tech I Semester Regular Examinations, November 2007
DATA BASE MANAGEMENT SYSTEMS
(Common to Computer Science & Engineering, Information Technology
and Computer Science & Systems Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the Transaction management in a database.
(b) Discuss the Query Processor of Database system structure. [8+8]
2. (a) What is an unsafe query? Give an example and explain why it is important to disallow such queries?
(b) What is relational completeness? If a query language is relationally complete, can you write any desired query in that language. [8+8]
3. What is dependency Preservation property for decomposition? Explain why is it important. [16]
4. Explain the 4NF. Why is it useful? Explain with example [16]
5. (a) Define the concept of a transaction. [6]
(b) Write a short notes on
 - i. Serialazability
 - ii. Recoverability [10]
6. (a) With an example explain serial & non serial serialazability schedule. [8]
(b) Describe each of the following locking protocols
 - i. Two phase lock
 - ii. Conservative two phase lock [8]
7. Give an example of a database application in which the reserved-space method of representing variable-length records is preferable to the pointer method. Explain your answer. [16]
8. Explain the distinction between closed and open hashing. Discuss the relative merits of each technique in database applications. [16]
