Set No. 4

Code No: R059210506

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) Why would choose a database system instead of simply storing data in operating system files? When would it make sense not to use a database system? (b) What is logical data independence and why is it important? [8+8](a) What is a relational database query? Explain with an example. (b) What are the SQL constructs to modify the structure of tables, views and to destroy the tables and views? [8+8][9] 3. (a) Explain different Binary Operations? (b) For the following relational database, give the expressions in SQL. branch_schema (branch_name, branch city, assets) customer_schema (customer name, customer street, customer city) Loan_schema (branch name, loan_number, amount) Borrower_schema (customer name, Loan number) Account_schema (branch name, account_number, balance) Depositer_secham (Customer name, account_number) i. find the names of all customers whos street address include substring [2] ii. Find average balance for each customer who lives in Harrison and at least three accounts? iii. Find all customer who have a loan at bank whose names are neither ?smith? non ?jones'? [2](a) What is Normalization? give types of normalization (b) What are the advantages of normalized relations over the un normalized relations? [8+8](a) What are the list of actions transaction can perform on a database objects. Explain with suitable schedule. [8] [8] (b) What are the transaction isolation Levels in SQL. 6. (a) What are the merits & demerits of using fuzzy dumps for media recovery. [6] (b) Explain the phases of ARIES Algorithm. [4](c) Explain 3 main properties of ARIES Algorithm [6]

[16]

7. Explain about Variable-Length file organization with an example.

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8. What are the causes of bucket overflow in a hash file organization? What can be done to reduce the occurrence of bucket overflows? [16]
