

JK Lakshmipat University, Jaipur
Institute of Engineering and Technology
End Term Examination

B.Tech CSE 3rd year/ 5th Semester/ 2013-2014



Course Name: Relational Data Base Management System

Max Marks: 40

Course Code: CSE 502

Time: 03.00 hr

Instructions: Attempt all sections.

Section A (Attempt all questions)

- Q.1.** (a) A..... is a program that serves as an interface between application program and a set of coordinated and integrated physical files.
 (b) A locked file can be
 (i) accessed by only one user (ii) modified by users with the correct password (iii) is used to hide sensitive information (iv) none of the above
 (c) In SQL, which command is used to add new rows to a table?
 (i) alter table (ii) add row (iii) insert (iv) append
 (d) Which of the following contains a complete record of all activity that affected the contents of a database during a certain period of time?
 (i) report writer (ii) query language (iii) data manipulation language (iv) transaction log
 (e) A logical schema
 (i) is the entire database (ii) is a standard way of organizing information into accessible parts (iii) describes how data is actually stored on disk (iv) All of the above

(1 × 5 = 5)

Q.2. (a) What is transaction? Explain ACID properties of transaction.

2½

(b) Describe the three levels of data abstraction.

2½

Section B (Attempt any four questions)

- Q.3.** What is the difference between file processing system and DBMS? What are the advantages and disadvantages of DBMS over file processing system? 5
Q.4. Explain the concept of specialization and generalization with example. 5
Q.5. Define BCNF. How does it differ from 3NF? Why it is considered a stronger form of 3NF? 5
Q.6. Generate some queries for selection, project, renaming, join, division. 5
Q.7. What is two phase locking? Describe with the help of an example. Will two phase result in deadlock? Justify your answer with the help of an example. 5

Section C

- Q.8.** What do you mean by constraints? Explain following constraints in context of ER model. 10
 (i) Mapping constraints (ii) Participation constraints (iii) Key constraints

Or

- Q.8.** What is log? How is it maintained? Discuss the salient features of deferred data base modification and immediate data base modification strategies in brief. 10