

Roll No. ....

**Subject Code—8213-X**

**M.B.A. EXAMINATION**

**(Fourth Semester)**

**(Re-appear Prior to Batch 2009)**

**ITM-421**

**RDBMS & SQL CONCEPTS**

*Time : 3 Hours*

*Maximum Marks : 100*

**Section A**

**Note : Attempt any *Seven* questions.  $7 \times 7 = 49$**

- 1. Briefly describe various levels of architecture of database system.**
- 2. What is an object oriented database model ?**
- 3. Why is normalization necessary in relational database design ?**

4. Discuss in brief about the distributed databases.
5. What are Codd's 12 Rules ?
6. What problems arise due to concurrency and how are these overcome ?
7. Why is data backup important in DBMS ?
8. What do you understand by the Client-Server and ODBC connectivity ?
9. What are multiple and correlated sub-queries in SQL ?
10. How do we implement various types of integrity constraints in SQL ?

### Section B

**Note.:** Attempt all the questions. **3×17=51**

11. Define a database and discuss advantages and disadvantages of a database approach.

*Or*

Draw the E-R diagram for a banking system and explain each of the relationships in detail.

12. Compare and contrast hierarchical and network models.

*Or*

Clarify the concept of locking and briefly describe different types of locking techniques.

13. Explain various arithmetic comparison and logical operators available in SQL with the help of examples.

*Or*

What do you mean by transaction control language ? Illustrate the use of commit, savepoint and rollback commands in SQL.