



**SCHOOL OF COMPUTER SCIENCE AND ENGINEERING**

**CAT - I**

**CSE 2004 – Database Management Systems**

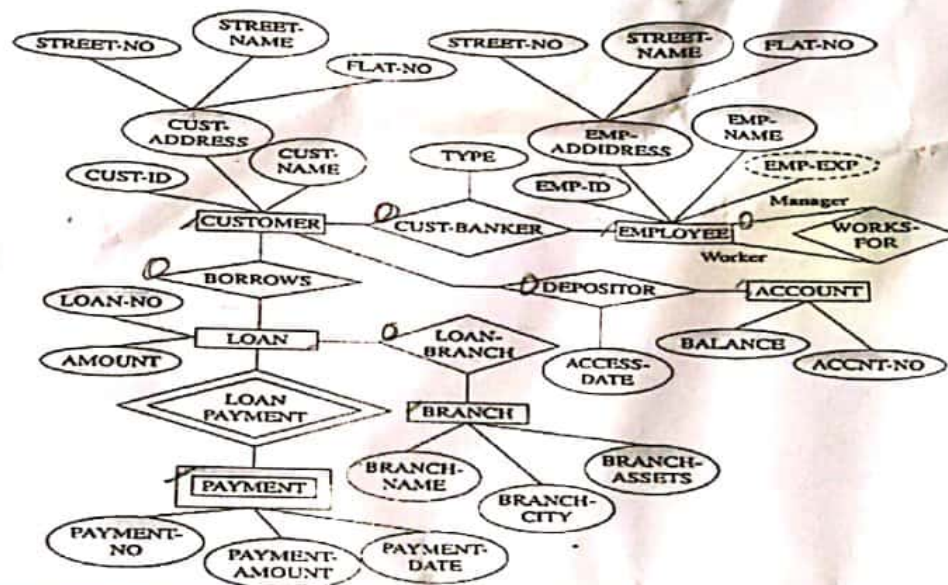
Course Name: B.Tech

Slot: D2

Max. Marks: 50

Answer ALL Questions (5 \* 10 = 50)

1. If you are a super user for database working in Tera Data Corporation? List the responsibilities of a super user with respect to database in detail? If we assume that the Super User is never interested in running his or her own queries, does the Super User still need to understand query optimization? Why? (10)
2. Map the ER diagram to its correspond relational model, identify the relationship and map the cardinality (10)



3. Explain constraints that can be imposed on Database with an example. (10)
4. If you are a database designer for IBM DB2 Product Development Cell, narrate how more than three entities are combined? Describe Generalization and Specialization with example? (10)
5. Explain the modules in database
  - a. Transaction Manager (2.5M)
  - b. Buffer Manager (2.5M)
  - c. Why we need compiler in databases (2.5M)
  - d. Data Dictionary (2.5M)

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