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### May 2004

## Bachelor of Computer Application (BCA) Examination IV Semester

# Data Base Management System

## Time 3 Hours]

[Max. Marks 50

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#### Note: Attempt all questions, choosing any two parts from each question. Each question carries equal marks.

- Define three level Architecture and Mapping between different (a) views.
  - Why is data modeling required? List various data models, (b) elaborating any one
  - What are responsibilities of Database Administrator? Explain. (C)
- What are different symbols used in E-R diagram? How a E-R 2 (a) diagram can be converted to a table?
  - What do you mean by mapping constraints? Explain one to one, (b) one to many, many to one and many to many with help of examples.
  - Design a E-R database schema for a banking system taking (e) three entities customer, loan and account.
- 3 (a) What is the basic structure of an SQL ? Explain nested subqueries with examples
  - (c) Write three different SQL statement and its equivalent QBE statement
  - Write SQL for following statement refering the table given below: Student (roll-no., name, city, fees, age, class) Team (id, name, game)
  - List all students who live in 'Indore'. (i)
  - Find how much fees is collected. (ii)
  - (iii) List all BCA students whose fees is more than 5000
  - (iv) Find the older student according to age
  - Find all student who are not player? (v)
- What are different anomalies which must be removed to get 4 (a) various normal forms? Explain.
  - Explain third normal form with example. Also explain insertion, (b) deletion anomalies in your example.
  - (c) Explain any two with examples: (i) Domain constraints, (ii) Entity Integrity Constraints, (iii) Referential Integrity
- Write short notes on oracle server tools and oracle client tools. 5. (a)
  - Explain various Potential threats in database environment. (b)
  - Define and explain. Following RDBMS Terminology: (c)
    - (i) Relation, (ii) Tuple, (iii) Degree, (iv) Domain, (v) Cardinality

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