DATABASE MANAGEMENT SYSTEM

Duration: 2hrs   Marks: 50

Instructions: *a) All the questions are compulsory.*
b) Draw diagram with pencil wherever necessary.

Q1.A) State whether True or False.   (5*1=5)
   a. The relational database model was created by E.F. Codd.
   b. A database has data and relationships.
   c. database redesign is equally difficult whether or not the he database has data in it.
   d. If a table is in 1st NF and doesn't have any composite key, then it is in 2nd form.
   e. A database design may be based on existing data.

Q1.B) Answer the following: (5*1=5)
   1. Define Primary key.
   2. What are the differences between DDL, DML and DCL in SQL?
   3. What is the difference between having and where clause?
   4. What are ACID properties?
   5. What is Data models?

Q2. Answer the Following :   (10)
   A) What is Object Oriented model?   (2)
   B) Differentiate between Traditional and Relational Database.   (3)
   C) Explain with proper example conversion of 3NF to BCNF.   (5)

Q3 Answer the following: (10)
   A) Explain Emerging trends in Database.   (2)
   B) Explain OLTP and OLAP.   (3)
   C) Explain Distributed Database.   (5)

Q4. Answer the Following: (10)
   A. How do you communicate with an RDBMS?   (2)
   B. Describe the three levels of data abstraction?   (3)
   C. Explain the concept of Data Mining and Data warehouse.   (5)

Q5. Answer the Following: (10)
   A. Define the "integrity rules".   (2)
   B. What is Data Independence?   (3)
   C. Explain Data Models and compare the data models.   (5)

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