

Roll No. ....

Total Pages : 2

**GSQ/M-21**

**1766**

**RELATIONAL DATA BASE  
MANAGEMENT SYSTEM**

Paper-I

Time Allowed : 3 Hours]

[Maximum Marks : 40

**Note** : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Write in short on the following : 2×4=8
  - (a) Differentiate between Equi-join & Nonequi-join.
  - (b) What is Normalization and its Anomalies ?
  - (c) Differentiate between DDL and DML.
  - (d) What is Nested Loop in PL/SQL ?

**UNIT-I**

2. What is Relational Algebra ? Explain selection and projection operation with example. 8
3. Differentiate between Hierarchical data model and Network model. 8

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## UNIT-II

4. What is Normalization ? Explain BCNF (Byte Codd Normal Form). 8
5. (a) Differentiate between Tuple Relational Calculus & Domain Relational Calculus. 4
- (b) What is Functional Dependency ? Explain its characteristics. 4

## UNIT-III

6. What do you mean by Constraint ? Explain CHECK & FOREIGN KEY Constraint with example. 8
7. Explain various types of JOINS available in SQL. 8

## UNIT-IV

8. What is PL/SQL ? What are its features ? What are the advantages of PL/SQL ? 8
9. Explain the following : 8
  - (a) PL/SQL variables.
  - (b) PL/SQL Data types.