

Roll No.

Total Pages : 02

GSQ/M-20

1766

COMPUTER SCIENCE

Paper I

Relational Data Base Management System

Time : Three Hours]

[Maximum Marks : 40

Note : Attempt *Five* questions in all, selecting *one* question from each Unit in addition to compulsory Q. No. 1. All questions carry equal marks.

Compulsory Question

1. (a) Define Join Operation in Relational Algebra.
- (b) Differentiate between Third Normal Form and Boyce Codd Normal Form.
- (c) Explain Data Control Language.
- (d) Explain Continue Statement in PL/SQL. **4×2=8**

Unit I

2. What is Relational Model ? Explain Codd's Rule for Relational Model. **8**
3. What is Network Model ? Explain its features and components. **8**

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Unit II

- 4. (a) What is Functional Dependency ? Explain its types. **5**
- (b) Explain the benefits of Normalization. **3**
- 5. (a) Explain Domain Relation Calculus. **4**
- (b) Explain 1st Normal Form. **4**

Unit III

- 6. Differentiate between the following with example :
 - (a) DELETE and TRUNCATE Command
 - (b) COMMIT and ROLLBACK and GRANT and REVOKE. **8**
- 7. Explain various functions available in SQL. **8**

Unit IV

- 8. Explain PL/SQL Execution Environment. **8**
- 9. Explain the following with Syntax and example :
 - (a) PL/SQL FOR Loop
 - (b) IF-THEN Statement. **8**