

Roll No.

Total Pages : 02

BCA/M-22

1881

RELATIONAL DATABASE MANAGEMENT
SYSTEM
BCA-244

Time : Three Hours]

[Maximum Marks : 80

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

Compulsory Question

1. (a) Explain relational constraints with example. 4
- (b) Write a short note on transitive functional dependency with suitable example. 4
- (c) What is SQL ? Elaborate on SQL operators with suitable examples. 4
- (d) Explain PL/SQL data types. 4

Unit I

2. What is the purpose of Codd's rules ? Explain various Codd's rules for Relational Model. 16
3. Define Relational Algebra. Explain various operations in Relational Algebra. 16

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Unit II

4. Explain various types of normal form with suitable examples. 16
5. Define Normalization. What is the purpose of normalization ? Explain various update anomalies along with the concept of functional dependency. 16

Unit III

6. Explain DML and DCL Commands in SQL along with suitable examples. 16
7. Explain the concept of Query, View and Indexes in SQL with suitable examples. 16

Unit IV

8. Explain various control structures in PL/SQL along with suitable examples. 16
9. Define cursors in PL/SQL. Elaborate the concept of cursors in detail and give appropriate examples. 16