

Roll No.

Total Pages : 02

BCA/M-20

1896

**RELATIONAL DATABASE MANAGEMENT
SYSTEM
BCA-244**

Time : Three Hours]

[Maximum Marks : 80

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) Write a short note on Relational Model Concepts. 4
- (b) Explain various anomalies in RDBMS. 4
- (c) Write a short note on Data types in SQL. 4
- (d) What are the advantages of PL/SQL ? 4

Unit I

2. What are the Codd's rules for RDBMS ? Explain in detail. 16
3. Explain various operations in Relational Algebra along with suitable examples. 16

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Unit II

4. Write short notes on the following :
- (a) Functional Dependencies 4
 - (b) Fully Functional Dependencies 4
 - (c) Transitive Dependencies 4
 - (d) Decomposition. 4
5. Define Normalization. What is its significance ? Explain the various types of normal forms along with suitable examples. 16

Unit III

6. Explain the basic DDL and DML commands in SQL along with suitable examples. 16
7. Explain the concept of Indexes and Aggregate functions in SQL with suitable examples. 16

Unit IV

8. Elaborate the following :
- (a) PL/SQL architecture 4
 - (b) Loop Control Statements in PL/SQL. 12
9. Define Cursors in PL/SQL. Explain various types of Cursors. Write any program of your choice in PL/SQL that makes use of Cursors. 16