BCA/M-23

1873

RELATIONAL DATABASE MANAGEMENT **SYSTEM**

BCA-244

Time: Three Hoursl

[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 Ouestion

What makes a DBMS as RDBMS ? 4 (a) 1.

Explain the concept of functional dependency and (b) fully functional dependency with suitable examples.

4

Elaborate any four DDL commands with suitable (c) 4 examples.

What is the full form of PL/SQL? Explain PL/SQL (d) 4 character set.

Unit I

What is Relational Calculus? Explain various types of 2. 16 Relational Calculus with suitable examples.

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3.	Explain the Union, Intersection, Difference	Select, Project,
	Product and Join Operations in Relationa	l Algebra. Give
	suitable examples.	16

Unit II

- 4. Define Normalization. Explain various normalization techniques with suitable examples. 16
- 5. Explain the concept of relational constraints and update anomalies along with suitable examples.

UNIT-III

- 6. Explain at least four DML and four DCL Commands in SQL along with their purpose, syntax and examples. 16
- 7. Define SQL. Write short note on SQL Operators, SQL data types, Tables and Views with suitable examples. 16

UNIT-IV

- Explain various conditional control and loop control statements supported in PL/SQL along with their purpose, syntax and examples.
- 9. Explain PL/SQL architecture. What are Generic PL/SQL Block and PL/SQL Execution Environment? Write a program in PL/SQL to find sum of series (1 + 2 + 3..... + n) using appropriate control statements.

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