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Total No. of Pages: 02

Total No. of Questions: 09

**PGDCA (2014 & Onward) (Sem. – 1)**  
**RELATIONAL DATABASE MANAGEMENT SYSTEM**

**M Code: 50504**

**Subject Code: PDCA-104**

**Paper ID: [B0144]**

Time: 3 Hrs.

Max. Marks: 60

**INSTRUCTIONS TO CANDIDATES:**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION A**

1. Write short notes on the following:

- a) Transitive Dependency
- b) Self Join
- c) Column Level Constraint
- d) Third Normal Form
- e) Iterative Control
- f) Advantages of Views
- g) PL/SQL Data types
- h) Advantage of PL/SQL
- i) Foreign Key
- j) Candidate key

## **SECTION B**

2. Draw diagram for the Relational Database Management System Architecture and explain different components of the diagram.
3. Write proper commands with syntax explanation for the following:
  - a) Insertion of data into the tables
  - b) Updating the contents of the table
4. What is normalization? Discuss first and second normalization with the help of an example.
5. Explain the utility of an Index. Discuss different types of Indexes. How Indexes are created?
6. How Equi join and Non Equi Join are different? Discuss with example.

## **SECTION C**

7. What are Different types of Data Models? Why RDBMS is better from others? What are different constituents of any RDBMS system?
8. What is Entity Relationship Model? What are different components of an ER system? Draw an ER-Diagram for the Library Management System.
9. PL/SQL is an important part of RDBMS. What are the conditional controls in PL/SQL? Also discuss the iterative Controls.