

Roll.No.

22UDSCT3003

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.Cs with DS - END SEMESTER EXAMINATIONS - NOVEMBER 2025

SEMESTER - III

**22UDSCT3003-Relational Database Management System**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### Section B

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Explain DBMS and its objectives and advantages.
2. Illustrate the Codd's Rules in relational model.
3. Relate the concepts Data Redundancy and Data Anomalies in relational databases.
4. Explain the use of Aggregate Functions in SQL with examples.
5. Identify the concepts of the basic structure and elements of a PL/SQL.
6. Apply the building blocks of an ER diagram.
7. Explain the concept of Subqueries and Constraints in SQL with examples.
8. Examine how to use keys and integrity constraints in the relational model.

### Section C

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Explain in detail about architecture of DBMS and its components involved in each layer.
10. Classify the Normalization with suitable examples.
11. Examine the Relational Calculus and Domain Relational Calculus.
12. Apply with example of Selection, Projection, Join, and Set operations in SQL with examples.
13. Justify the concepts of procedures, functions, packages, and triggers in PL/SQL with examples.

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