

Roll.No.

25UCSCT5E08

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.Computer Science - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - V

25UCSCT5E08 -Database Management Systems

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Explain the concept of data dependency and its role in normalization.
2. Explain DDL, DML and TCL commands with examples.
3. Explain the types of constraints used in Oracle tables with examples.
4. Compare various Join operations in SQL with corresponding examples.
5. Describe the role of cursors in PLSQL and distinguish between implicit and explicit cursors.
6. Illustrate exception handling techniques in PLSQL with an example.
7. Explain the importance of triggers in database management with examples.
8. Discuss the advantages of NoSQL databases over traditional relational databases.

Section C

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

9. Design and normalize a relational schema for a university database up to 3NF.
10. Write and explain SQL queries to demonstrate DML operations and Joins between multiple tables.
11. Develop a PLSQL block to manage employee details using procedures and cursor concepts.
12. Evaluate SQL and NoSQL models in terms of scalability, consistency, and data integrity.
13. Analyze database design principles with reference to relational integrity and dependency diagrams.
