APRIL 2026

52509/320C5B/
341C5A/325C5B

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is meant by data and information?

2. What are the building blocks of ER diagram?

3. Define degree of a relationship.

4. What is domain relational calculus?

5. Write any two advantages of relational data model.

6. What is a data anomaly?

7. Define BCNF.

8. What arc data definition commands in SQL?

9. Define INTERSECT and MINUS.

10. Mention any two types of SQL joins.

11. What is the use of PL/SQL packages?

12. Define a cursor.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Explain classification of relationships in ER model.

14. Illustrate relational calculus with examples.

15. Discuss the need and types of functional dependencies.

16. Describe how SQL handles table creation and data manipulation.

17. Explain outer joins with suitable examples.

18. Write short notes on string and numeric functions in SQL.

19. Describe the types of control structures in PL/SQL.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Describe ER model to table conversion and highlight the advantages of the model.

21. Explain the process of normalization up to 3NF.

22. Write SQL queries for the following:

    (a) Create a table

    (b) Insert values

    (c) Join two tables using JOIN ON

    (d) Use GROUP BY and HAVING

23. Explain PL/SQL triggers with syntax and example.

24. Write about subqueries. correlated subqueries. and how they differ.

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