Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is the difference between data and information?
2. What is Database?
3. Define entity with an example.
4. What is candidate key?
5. What is referential integrity?
6. What are ACID properties of the DBMS?
7. Define BCNF.
8. What is DML?
9. What are subqueries?
10. What is a Trigger?
11. What is function in PL/SQL?
12. What are Packages?

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. What are the advantages of DBMS? Explain.
14. What are the building blocks of ER diagram?
15. What are the advantages of QBE? Briefly explain.
16. Describe the purpose of normalizing the data.
17. Give a brief account on Transaction processing.
18. Explain the set operations of SQL.
19. What is a cursor? Explain the steps to create a cursor.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain the various classifications of database architecture.
21. List and explain Codd's rules for relational database.
22. Explain the classification of database security.
23. Discuss the various aggregation functions supported by SQL.
24. Explain the Exception Handling mechanism in PL/SQL.

IM BCA → Relational Database Management System