

Time : Three hours

Maximum : 75 marks

PART A — (5 × 6 = 30 marks)

Answer any FIVE questions.

1. What is Database? What is a DBMS? Explain in detail.
2. What is an instance? What is a schema?
3. Define primary key and foreign key with example.
4. List the steps in query processing.
5. Explain the atomicity of the transaction?
6. Give the syntax for creating the index in SQL.
7. Define normalization and give its importance.
8. What is meant by data integrity and data isolation?

PART B — (3 × 15 = 45 marks)

Answer any THREE questions.

9. Distinguish between DBMS Vs file processing system.
10. Explain the overall view of database architecture with neat diagram.

11. (a) Distinguish between 4NF and 5NF.
(b) Check whether the given number is Armstrong or not using pl/sql programming.
 12. (a) Define transaction processing and draw the transaction diagram.
(b) Explain in detail about two phase locking protocol.
 13. Explain the enhance E-R model diagram for employee database application.
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