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DCCA203

Reg. No.

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II Semester B.C.A Degree Examination, June/July - 2025

COMPUTER APPLICATIONS

Database Management System

(NEP Scheme Repeaters)

Time : 2½ Hours

Maximum Marks : 60

**Instructions to Candidates:**

Answer any four questions from each section.

**SECTION - A**

Answer any FOUR questions. Each question carries Two marks.

(4×2=8)

1. Define DBMS. State any two advantages of DBMS.
2. What is Schema?
3. What is weak entity and strong entity?
4. Define anomaly in Database. Mention different types of anomalies.
5. What are the different categories of SQL statements?
6. What is Concurrency control?

**SECTION - B**

Answer any FOUR questions. Each question carries Five marks.

(4×5=20)

7. Describe the different functions of DBMS.
8. Write a short notes on centralized DBMS architecture.
9. Describe the different notations used in ER-diagram.
10. Explain tuple, domain, attribute with an example.
11. Discuss DDL statements with syntax and example.
12. Explain First and second normal form in detail.

[P.T.O.]



## SECTION - C

Answer any FOUR questions. Each question carries Eight marks. (4×8=32)

13. a) Define DBA? Describe the roles and responsibilities of DBA. (4)
- b) Describe object oriented data model. (4)
14. Construct ER diagram for university database. (8)
15. Explain different relational algebra operations. (8)
16. a) Explain Loop statements in PL/SQL with an example. (5)
- b) Differentiate between SQL and PL/SQL. (3)
17. Explain different states of a transaction with a neat diagram. (8)
18. a) Explain Binary lock technique for controlling concurrency. (3)
- b) Describe data recovery in Multi-database system. (5)