21BCA3C7DML

B.C.A III Semester Degree Examination, April/May - 2024
COMPUTER SCIENCE
Database Management System
(NEP)

Time : 2 Hours | Maximum Marks : 60

SECTION - A

Answer **all** the questions. Each question carries **one** mark. **10x1=10**

1. (a) Define DBMS.

(b) What do you mean by Physical Data Independence ?

(c) What is weak entity ?

(d) Define Multivalued attribute.

(e) What is Primary key ?

(f) Expand PL/SQL.

(g) What is Normalization ?

(h) Define Decomposition.

(i) What is Concurrency control ?

(j) Mention types of failures in Transaction.

SECTION - B

Answer **any four** questions. Each question carries **five** marks. **4x5=20**

2. Explain any two characteristics of DBMS.

3. What is Relationship ? Discuss its types.

4. Explain any two DML commands.

5. Write a note on Functional dependencies.

6. Explain different transaction states.

7. Explain any two types of JOIN operations with example.

SECTION - C

Answer **any three** questions. Each question carries **ten** marks.   **3x10=30**

8. Explain 3-level Schema Architecture with neat diagram.

9. Explain different symbols used in E-R model diagram.

10. Explain any three operations of Relational Algebra with example.

11. Explain any two Normal forms in normalization.

12. Explain ACID properties of Transaction.

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