Reg. No.

III Semester B.C.A 6 (NEP) Degree Examination, March/April - 2024
DATABASE MANAGEMENT SYSTEM
(Regular/Repeater)

Maximum Marks : 60

Time : 2 Hours

Instructions to Candidates :

1) All sections are compulsory.
2) Draw diagrams wherever necessary.

SECTION -A

(10×2=20)

Answer any TEN of the following.

1. Define DBMS. Write any 2 examples of DBMS softwares.

2. List 2 responsibilities of DBA.

3. Expand DCL and TCL

4. Define entity and entity set.

5. Write any 4 symbols used in ER model.

6. Define entity integrity constraint.

7. Write syntax and example for group by clause.

8. Define relationship.

9. What is insert anomaly?

10. What are the two purposes of Normalization?

11. Expand BCNF and ACID.

12. What is query optimization?

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SECTION - B

Answer any FOUR of the following.   **(4×5=20)**

13. Explain categories of end users.

14. Differentiate strong entity and weak entity.

15. Discuss Relational algebra operations.

16. Define Normalization and explain 1 NF.

17. Explain states of transactions in DBMS.

SECTION - C

Answer any TWO of the following.   **(2×10=20)**

18. Explain the advantages of using DBMS approach.

19. a) Define attribute and explain its types.

    b) Explain Dirty Read problem with concurrent execution.

20. **Write note on any TWO.**

    a) Join operations.

    b) Database languages.

    c) Aggregate Functions.

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