21BSC4C4CSL

B.Sc. IV Semester Degree Examination, September/October - 2023
COMPUTER SCIENCE
Database Management System
(NEP)

Time : 2 Hours   Maximum Marks : 60

SECTION - A

I.   **1.**   Answer the following questions :   **10x1=10**

    (a)   Define Database.

    (b)   Expand DBA.

    (c)   What is an Entity ?

    (d)   Define Degree of a Relationship.

    (e)   Write any 2 basic operations of Relation Algebra.

    (f)   Define Views.

    (g)   What is Decomposition ?

    (h)   What is Functional Dependency (FD) ?

    (i)   Define Transaction.

    (j)   What is Deadlock ?

SECTION - B

II.   Answer **any 4** of the following questions :   **4x5=20**

    2.   Briefly explain Architecture of DBMS.

    3.   Define an E-R model. Explain the ER-Diagram Notations.

    4.   Briefly explain Aggregate functions.

    5.   What is an anamoly ? Discuss the types of anamolies in DBMS.

    6.   Explain the Basic Structure PL/SQL.

    7.   Briefly explain states of Transactions.

SECTION - C

III. Answer **any 3** of the following questions : 3x10=30

    8. Explain different types of Database Languages.

    9. What is an Attribute ? Explain different types of Attributes.

    10. Define Join Operation. Explain types of Join Operation in DBMS.

    11. What is Normalization ? Explain types of Normalization.

    12. Briefly explain ACID properties of Transaction.

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