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F - 1898 (A)

P. G. Diploma in Computer Application
(Second Semester)
EXAMINATION, MAY-JUNE, 2022
(Old Course)
DATABASE MANAGEMENT SYSTEM
(PGDCA–107)

Time : Three Hours]   [*Maximum Marks : 100*

Note : Attempt any two parts of each questions. All questions carry equal marks.

Unit - I

1. (A) Explain different kinds of DBMS users.

    (B) What is DBA? Write the responsibilities of DBA.

    (C) Describe various types of Data Models.

Unit - II

2. (A) With the help of example explain the use of ER diagram.

    (B) Write the difference between Primary Key and Foreign Key.

    (C) What do you understand by aggregation? Explain.

Unit - III

3. (A) Define model in DBMS. Write the advantages of Relational Model.

    (B) Explain Tuple National calculus in detail.

    (C) Write note on following-

        (i)   Relational database structure

        (ii)   Extended relational-Algebra Operation

Unit - IV

4. (A) Define Normalisation. Explain BCNF with suitable example.

(B) Write short notes on the following-

    (a) Partial Dependency

    (b) Transitive Dependency

    (c) Multivalued Dependency

    (d) Decomposition

(C) Explain pitfalls in Relational Database Design.

Unit - V

5. (A) How can we specify integrity constraint in SQL.

(B) Explain any five predefine SQL function with example.

(C) Discuss security in SQL.

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