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P.G. Diploma in Computer Application
(Second Semester)
EXAMINATION, May - June, 2022
(New Course)
DATABASE MANAGEMENT SYSTEM
(PGDCA - 107)

Time : Three Hours]   *[Maximum. Marks:80*
                                         [Minimum Pass Marks:20

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

Unit - I

1. (A) What is DBMS? Explain in detail about DBMS advantages over file management system.

    (B) Explain views of data with suitable example.

    (C) Discuss about database languages.

Unit - II

2. (A) Define Key. Explain the different types of Key with example.

    (B) Explain converting an ER model into relation schema.

    (C) Differentiate strong entity set and weak entity set with example.

Unit - III

3. (A) Explain about set operators in relational algebra.

    (B) What do you understand by join? Explain with example.

    (C) Write note on tuple relational calculus and domain relational calculus.

Unit - IV

4. (A) Explain the concept of functional dependency with an example.

    (B) What is Normalization? Explain the types of normalization.

    (C) Discuss BCNF. How does it differ from 3 NF.

Unit - V

5. (A) Discuss about different DML operations with syntax and example.

    (B) List the data types supported by SQL and explain where clause with appropriate example.

    (C) Write about granting roles and privileges.