E–1892

P. G. Diploma in Computer Application
(Second Semester)
EXAMINATION, May-June, 2021
(New Course)
DATABASE MANAGEMENT SYSTEM
(PGDCA—107)

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

[*Minimum Pass Marks : 40*

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

Unit—I

1. (a) What exactly do you mean by Database Management System (DBMS) ? Explain the overall structure of a database management system.

   (b) Explain in brief transaction management with example.

   (c) Give an example of data modelling in a database management system.

Unit—II

2. (a) What does ER diagram mean to you ? Give an example to demonstrate your point.

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   (b) Discuss the features of attributes with example.

   (c) Explain the difference between specialisation and aggregation with an example.

Unit—III

3. (a) What do you know about query ? Differentiate between simple and complex query.

   (b) Clearly specify the concept of inner join and outer join with suitable example.

   (c) What exactly do you mean when you say domain relational calculus ? Explain.

Unit—IV

4. (a) Specify with example pitfalls in relational database design.

   (b) What do you understand by 4NF ? Explain with example.

   (c) What is join dependency ? Why do we use it into 5th normal form ?

Unit—V

5. (a) Differentiate between order by clause and group by clause with example.

   (b) Discuss five SQL functions with example.

   (c) Discuss the procedure to create, alternate and drop table.