Roll No.

D-1781

P. G. Diploma in Computer Application (Second Semester) EXAMINATION, 2020

(New Course)

DATABASE MANAGEMENT SYSTEMS

(PGDCA-107)

Time: Three Hours [Maximum Marks: 100

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

Unit—I

- 1. (a) What is DBMS? Explain advantage of DBMS.
 - (b) Explain three level architecture of DBMS with example.
 - (c) Write short notes on any two of the following:
 - (i) Database Languages
 - (ii) Functions of Database Administrator
 - (iii) Schema and Instance with example

Unit—II

- 2. (a) What is E-R Model ? Explain keys in ER with example.
 - (b) Explain special ER features with example.

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(c) Construct an E-R diagram for Bank Management System having no. of customers.

Unit—III

- 3. (a) Explain Relational Algebra with their operations.
 - (b) What is RDBMS? Write any schema diagram of RDBMS.
 - (c) What is Domain Relational Calculus? Why do we need this?

Unit-IV

- 4. (a) Explain 1 normal form with example.
 - (b) What are the functional dependencies?
 - (c) Define good and bad decomposition.

Unit-V

- 5. (a) What is SQL ? Explain features of SQL and SQL operators.
 - (b) Explain SQL function with example.
 - (c) Write short notes on the following:
 - (i) ALTER
 - (ii) UPDATE
 - (iii) CREATE
 - (iv) DELETE
 - (v) DROP

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