Roll No. ....

DD–2865

B. C. A. (Part II) EXAMINATION, 2020

Paper Fourth

DBMS (ORACLE, SQL)

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) Explain Database Languages.

   (b) Write different kinds of users.

   (c) Describe the structure of database storage system.

Unit—II

2. (a) Explain the following keys :

   (i) Primary key

   (ii) Foreign key

   (iii) Candidate key

   (iv) Alternate key

   (b) Explain Aggregation. Also draw E-R diagram with aggregation.

   (c) Explain components of E-R diagram.

Unit—III

3. (a) Write different types of relational algebraic operations.

   (b) Explain different types of joins.

   (c) What are the two integrity rules used in DBMS ?

Unit—IV

4. (a) What is Normalization ? Explain 1NF and 2NF.

   (b) Write BCNF (Boyce–Codd Normal Form).

   (c) Explain partial dependency and join dependency.

Unit—V

5. (a) Explain the following commands with syntax and example (if necessary) :

   (i) SELECT Command

   (ii) Create Table Command

   (b) Write Aggregate functions in SQL.

   (c) Describe arithmetic functions used in SQL.