ED-472

M.Sc. 2nd Semester
Examination, May-June 2021

COMPUTER SCIENCE

Paper - I

RDBMS (SQL Programming with Oracle)

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

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

Unit-I

1. (*a*) Examine the objective of database processing.

   (*b*) Briefly describe the network, hierarchical and relational data models.

   (*c*) Clearly define the scope and meaning of the data dictionary.

(2)

Unit-II

2. (*a*) What does ER diagram mean to you ? Use an example to explain attributes.

(*b*) Discuss the process of converting an ER model to a relational schema.

(*c*) With an example, distinguish between tuple and domain relational calculus.

Unit-III

3. (*a*) Discuss with example trigger used in relational algebra.

(*b*) Specify five syntax of SQL with example.

(*c*) What do you understand by integrity constraints ? Specify with example.

Unit-IV

4. (*a*) What do you mean by PL/SQL data types and variables ?

(*b*) Specify PL/SQL control statements with examples.

(*c*) Describe with example PL/SQL tables, insertion, deletion of rows and records.

Unit-V

5. (*a*) Discuss the technique for organising records in files in relation to a database management system.

(*b*) With an example, clearly define the notion of normalisation in a logical model.

(*c*) What are the properties of multivalued dependency ?

———