FD-472

M.Sc. 2nd Semester
Examination, May-June 2022

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*) What is data, information and knowledge ? How to Data Processing is differ from Data Management ? Explain.

   (*b*) Explain the object oriented database and object relational database.

   (*c*) What is ODBC ? Explain the concept of ODBC in details.

Unit-II

2. (*a*) What is Generalization, Specialization and Aggregation in E-R Model ? Explain with example.

   (*b*) Describe the various types of Joins used in Relational Algebra.

   (*c*) What is Key ? Explain the different types of key used in E-R Model.

Unit-III

3. (*a*) What is View ? How to create and delete view ? Explain with example.

   (*b*) What is data type ? Explain the various data types used in PL/SQL with example.

   (*c*) Write a PL/SQL to calculate factorial of any given number.

Unit-IV

4. (*a*) How to inserting and fetching row using PL/SQL ? Explain with example.

   (*b*) Create a procedure to display record in PL/SQL using suitable data.

   (*c*) What is Package ? How to create and use a package in PL/SQL ? Explain with example.

Unit-V

5. (*a*) What is 3NF and Boyce Codd Normal Form ? Explain with example.

   (*b*) How do functional dependencies differ from join dependencies ? Explain with example.

   (*c*) What is Indexing ? Explain the B+ Tree and Hashing Techniques.

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