Bachelor of Science (B.Sc. I.T.) Semester—IV Examination
ORACLE
Paper—IV

Time : Three Hours]   [Maximum Marks : 50

Note :— (1) **All** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) Explain the Codd's Rules for RDBMS in detail. 5

   (b) List and explain sub-languages of SQL. 5

   OR

   (c) Explain with example different data types in ORACLE. 5

   (d) Explain different roles of DBA. 5

   EITHER

2. (a) Write short notes on :—

   (i) DDL command

   (ii) DML command. 5

   (b) What is Views ? Explain it with example. 5

   OR

   (c) Explain purpose and syntax with example :—

   (i) CREATE Table

   (ii) DELETE Table. 5

   (d) Explain in detail PL/SQL block structure. 5

   EITHER

3. (a) What is Cursor ? Differentiate Implicit and Explicit Cursor with example. 5

   (b) Write a program to demonstrate user defined exception. 5

   OR

   (c) What are Packages ? Write its advantages and disadvantages. 5

   (d) Write DL/SQL block to find largest of three numbers. 5

   EITHER

4. (a) What is Triggers ? Write a trigger on the employee table that allows the name of employee in the name column in upper case. 5

   (b) Write a procedure to swap two numbers. 5

   OR

   (c) Explain varying array with suitable example. 5

   (d) What is nested tables ? Explain with suitable example. 5

5. (a) Explain with example how to log in and log out of ORACLE. 2½

   (b) Define Syntax for simple reports commands. 2½

   (c) Explain the following :—

   (i) Pre define Exception

   (ii) User define Exception. 2½

   (d) Explain with example declaration and initialization of arrays in PL//SQL block. 2½