Bachelor of Science (B.Sc.) Semester—VI Examination
SQL AND PL/SQL
Optional Paper—2
(Computer Science)

Time : Three Hours]   [Maximum Marks : 50

Note :—(1) All questions are compulsory and carry equal marks.
           (2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (A) Explain any ten CODD's rules.   5
    (B) Consider the following table :

             Employee (emp_no, emp_name, address, city)

         Answer the following query :

         (i)   Add the field telephone no. and e-mail in the Employee table
         (ii) Increase the size of city column to 25.   5

    OR

    (C) Explain Primary Key constraint. Answer the following query :

         Create a table client_master with the client_no as its primary key.

             client_master (client_no, name, address)   5

    (D) Explain the following functions with suitable example :

         (i)   TRUNC
         (ii)   ROUND
         (iii) MOD
         (iv)   POWER
         (v)   CEIL.   5

    EITHER

2. (A) Differentiate between SQL and PL/SQL progamming.   5
    (B) Consider the following two tables :

             Employee (emp_no, name, designation)
             Personal_Info (emp_id, date_of_birth, mobile_no)

         Answer the following query :

         Create a view to include emp_no, name, date_of_birth, mobile_no.   5

    OR

    (C) Write a program in PL/SQL to find the largest of three numbers.   5
    (D) Explain CASE statement with example.   5

    EITHER

3. (A) What is exception ? Explain user defined exception with example.   5
    (B) What is cursor ? Explain different types of cursors. Give syntax for opening and closing cursors.
                                                                                                   5

    OR

    (C) Write a PL/SQL block that uses the cursor to subtract Rs. 500/- from the total salary of the
         employees having department number 20.

             Employee (emp_no, name, salary, dept_no)   5

    (D) Write a procedure to display the record of given employee number.   5

EITHER

4. (A) What are triggers ? List different types of triggers. Give syntax for creating a database trigger. 5

    (B) Write syntax to create a function with example. 5

    OR

    (C) Write a trigger which will not allow the user to work on the table Employee on Friday. 5

    (D) Explain problems on Triggers. 5

5. Attempt **ALL** :

    (A) Write syntax and example of creating SYNONYMS. 2½

    (B) What are the advantages of creating a view ? 2½

    (C) Explain the following predefined exceptions :

        (i)   TOO_MANY_ROWS

        (ii) NO_DATA_FOUND 2½

    (D) Explain DDL triggers. 2½