Bachelor of Science (B.Sc.) Semester—VI (C.B.S.) Examination

COMPUTER SCIENCE

(SQL and PL/SQL)

Paper—2

Time : Three Hours]   [Maximum Marks : 50

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

(2) Draw neat and well labelled diagram wherever necessary.

EITHER

1. (a) Explain any ten CODD's rules.   5

    (b) Explain primary key constraint and foreign key constraint.   5

OR

    (c) How will you create a table from existing table.   5

    (d) Consider the following schema :

         SUPPLIER (SUPPLIER_ID, SUPPLIER_NAME, SUPPLIER_CITY)

         Answer the following questions :

         (i) Find the name of supplier whose SUPPLIER_ID is NGP008.

         (ii) Find the suppliers belonging to DELHI City.   5

EITHER

2. (a) Write limitations/restrictions of using DML statements on views.   5

    (b) Explain PL/SQL Black Structure.   5

OR

    (c) Write a short note on Materialized view.   5

    (d) Write a PL/SQL Code to decide the larger of two numbers.   5

EITHER

3. (a) Explain predefined exceptions.   5

    (b) Write suitable program to illustrate life cycle of explicit cursor :

         (i)   Declaring cursor

         (ii) Opening cursor

         (iii) Retrieving records/fetching records

         (iv) Closing cursor.   5

OR

(c) Write a PL/SQL block to handle division by zero exception.   5

(d) Write a procedure to add a record of new employee in emp table.

     emp (ename, empno, sal, comm, deptno)   5

EITHER

4. (a) Write the syntax and example for creating a function.   5

     (b) What are different types of triggers ? Explain.   5

OR

(c) Give the advantages of trigger. Explain the RAISE_APPLICATION_ERRORC ( ) function. 5

(d) Write a PL/SQL block to find greater of two numbers using functions.   5

5. Attempt **all** :

     (a) List any four Oracle Database objects and explain any one.   2½

     (b) Give syntax and example of Loop statement.   2½

     (c) Give Syntax for creating a procedure.   2½

     (d) Explain how triggers are enabled and disabled.   2½