

**Bachelor of Science (B.Sc.) (I.T.) Semester—IV
(C.B.S.) 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) Write down any ten Codd's rules for RDBMS. 5

(b) Explain various data types in SQL. 5

OR

(c) Explain the role of Database administrator. 5

(d) Explain the following :

(i) Logging in and logging out in Oracle

(ii) Creation of user and password. 5

EITHER

2. (a) Write short notes on DDL and DML in SQL. 5
- (b) Explain the following aggregate commands :
- (i) sum()
 - (ii) avg()
 - (iii) count()
 - (iv) min()
 - (v) max(). 5

OR

- (c) Explain the loops used in PL/SQL. 5
- (d) Write a PL/SQL code to find the largest of three numbers. 5

EITHER

3. (a) What is a cursor ? Differentiate between implicit cursor and explicit cursor. 5
- (b) Write a procedure in PL/SQL to increase the salary of all employees in an organisation by 10%.
employee(NAME, AGE, SEX, BASIC_SAL). 5

OR

- (c) What is a function ? What do you understand by purity level ? Explain with an example. 5
- (d) Write an example to show the exception that is raised in the inner block and handled in the outer block. 5

EITHER

4. (a) Explain the use of before and after triggers giving suitable examples. 5
- (b) Write a short note on DBMS OUTPUT. 5

OR

- (c) What is a trigger ? Create a trigger that restricts a user from performing a DML on EMP table on Sunday. 5
- (d) What are Varrays ? Explain in detail. 5
5. Attempt *all* the questions :
- (a) Explain Oracle as multiuser system. 2½
 - (b) What are subqueries ? Explain with an example. 2½
 - (c) Discuss the use of cursors in package. 2½
 - (d) Write a short note on DBMS standard in built-in packages. 2½