

**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, labelled diagrams wherever necessary.

**EITHER**

1. (a) Explain any ten codd's rules. 5
- (b) Explain the role of DBA. 5

**OR**

- (c) Write short notes on : 5
  - (i) Database objects
  - (ii) Benefits of SQL.
- (d) Differentiate between : 5
  - (i) Char and Varchar
  - (ii) LONG and LONG RAW.

**EITHER**

2. (a) Explain the following commands with syntax and example :
  - (i) INSERT (ii) DELELE (iii) SELECT 5
- (b) What are views ? Explain object view and read only view. 5

**OR**

- (c) Explain the following aggregate functions : 5
  - (i) Sum (ii) AVG (iii) COUNT (iv) MIN (v) MAX
- (d) Write a PL/SQL code to find the factorial of a number. 5

**EITHER**

3. (a) What is a cursor ? How will you define an explicit cursor ? Give an example. 5  
(b) Differentiate between user defined exception and pre defined exception. 5

**OR**

- (c) Write a function to find the square of a number. 5  
(d) What is a package ? Write down the advantages of packages. 5

**EITHER**

4. (a) What is a trigger ? Write a trigger that generates an error message if a person tries to perform DML command on sunday. 5  
(b) Write a short note on built in packages. 5

**OR**

- (c) Write a short note on varrays and nested tables. 5  
(d) Explain the use of before and after triggers giving a suitable example. 5

5. Attempt **All** :

- (a) Explain any two elements of SQL.  $2\frac{1}{2}$   
(b) Explain outer join with example.  $2\frac{1}{2}$   
(c) Write down the benefits of packages  $2\frac{1}{2}$   
(d) Explain any two trigger predicates.  $2\frac{1}{2}$