

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

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Illustrate your answer with suitable diagram wherever necessary.

EITHER

1. (a) What are the data types supported by ORACLE ? Give example of each one. 5
- (b) Explain the role of DBA. 5

OR

- (c) Give any ten Codd's rules. 5
- (d) What are the elements of SQL ? Explain each one. 5

EITHER

2. (a) Explain the types of SQL commands with syntax and example. 5
- (b) What do you mean by view ? Explain the types of views. 5

OR

- (c) What is join ? Explain outer join with example. 5
- (d) Write a PL/SQL code to reverse the digits of a number. 5

EITHER

3. (a) What are Cursors ? Why are they required ? Explain explicit cursors. 5
- (b) Define Procedure. Write a procedure in PL/SQL to increase the salary of all employees in an organisation by 7.5% employee (name, age, sex, basic_sal). 5

OR

- (c) What do you mean by Packages ? Explain its benefits. 5
- (d) Explain Predefined exceptions with example. 5

EITHER

4. (a) What is Trigger ? Explain the use of before and after trigger, giving suitable examples. 5
- (b) Explain the concept of nested tables. 5

OR

- (c) Explain trigger predicates giving examples. 5
- (d) How can we manipulate the data using Varrays. 5

5. Attempt **ALL** :—

- (a) Give the benefits of SQL. 2½
- (b) What are aggregate functions ? Explain any two. 2½
- (c) What do you understand by a package ? Explain cursors in packages. 2½
- (d) What are the attributes of explicit cursor ? 2½