

**Bachelor of Science (B.Sc.) Semester–VI (C.B.S.) Examination****SQL AND PL/SQL****Paper—2****(Computer Science)**

Time : Three Hours]

[Maximum Marks : 50

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

(2) Draw neat and labelled diagrams wherever necessary.

**EITHER**

1. (a) Explain the various data types in SQL. 5  
 (b) Explain with an example, how to create a table from existing table. Explain Oracle DUAL table. 5

**OR**

- (c) What are aggregate functions ? List and explain with example. 5  
 (d) Explain any ten CODD's rules. 5

**EITHER**

2. (a) What are views ? Explain different types of views. 5  
 (b) Write a PL/SQL code to swap the contents of two variables. 5

**OR**

- (c) Write the commands to create a view and drop a view with syntax and example. 5  
 (d) List iterative statements in PL/SQL. Explain any one with example. 5

**EITHER**

3. (a) What is exception ? Explain any four predefined exceptions. 5  
 (b) Write a procedure in PL/SQL to increase the salary of all employees in an organisation by 75 % employee (name, age, sex, salary). 5

**OR**

- (c) Explain the different attributes of explicit cursors with suitable examples. 5  
 (d) Define procedure giving its syntax for creating a procedure. Explain procedure having parameters with suitable example. 5

**EITHER**

4. (a) Write a PL/SQL code to create a function that takes a 3 digit number and prints the reverse of it (example 496 is to be printed as 694). 5  
 (b) Explain the use of before and after triggers giving suitable examples. 5

**OR**

- (c) What is a function ? Write syntax to create a function. Write the advantages of using a function. 5  
 (d) What is a trigger ? Create a trigger that restricts a user from performing DML on EMP table on Sunday. 5

5. Attempt all :

- (a) Explain the ALTER table command in brief. 2½  
 (b) Write the advantages of views. 2½  
 (c) Explain the purity levels of functions with an example. 2½  
 (d) Write syntax to create an exception. 2½