

**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 diagram wherever necessary.

**EITHER**

1. (A) List any ten CODD's rule. 5
- (B) Explain the following operations with syntax over a table :
  - (i) Creation of table
  - (ii) Adding one more column in existing table. 5

**OR**

- (C) Explain the Grant and Revoke command with suitable example. 5
- (D) What is constraint ? Explain CHECK constraint and UNIQUE constraint with suitable example. 5

**EITHER**

2. (A) What is view ? Give its advantages and write a syntax to create a view. 5
- (B) Write a program in PL/SQL to find the sum of digits of given number. 5

**OR**

- (C) Explain different blocks available in PL/SQL. 5
- (D) Create view on the employee table that gives access to information about employees in the department number 35.  
employee (empno, salary, deptno). 5

**EITHER**

3. (A) What is EXCEPTION ? Explain the user defined exception. 5  
(B) Write a procedure in PL/SQL to increase the salary of all employee by 7.5%.  
employee (name, age, sex, basic-salary). 5

**OR**

(C) Explain the following predefined exception :

- (i) DUP\_VAL\_ON\_INDEX
- (ii) NO\_DATA\_FOUND
- (iii) ZERO\_DIVIDE
- (iv) VALUE\_ERROR
- (v) INVALID\_NUMBER.

(D) What is Cursor ? What are the different types of cursors ? Explain any one with example.  
Give the syntax for opening and closing cursor. 5

**EITHER**

4. (A) What is trigger ? Give the syntax for creating a trigger. 5  
(B) Write a function in PL/SQL to find the factorial of given number n. 5

**OR**

(C) Create a trigger that restricts a user from performing a DML on EMP table on “Sunday”. 5  
(D) What is a function ? Give the syntax for creating a function. 5

5. (A) Explain any two date functions with suitable example. 2½  
(B) Explain FOR loop with suitable example 2½  
(C) Define procedure. Give syntax for creating a procedure. 2½  
(D) Explain use of before and after triggers giving a suitable example. 2½