

KNT/KW/16/5223

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. 5
- (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