

NRT/KS/19/2190

Bachelor of Science (B.Sc.) Semester–VI Examination

SQL AND PL/SQL

Optional Paper–2

(Computer Science)

Time : Three Hours]

[Maximum Marks : 50

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

(2) Draw neat and labelled diagrams wherever necessary.

1. EITHER

(a) Explain Codd's rules in detail. 5

(b) What is integrity constraints ? Explain the various types of integrity constraints. 5

OR

(c) What are Synonyms ? Give the Syntax for creating the Synonyms and deleting the Synonyms. 5

(d) Write notes on the following functions : 5

(i) Date

(ii) Aggregate

2. EITHER

(a) What is view ? Write a Syntax to create a view. Explain different types of view. 5

(b) Differentiate between SQL and PL/SQL. Write a PL/SQL block for swapping two numbers. 5

OR

(c) Explain CASE statement with example in oracle. 5

(d) Create a view that give access to limited information about employee in Department no. 004 from employee table.

Employee (empno, ename, deptno, salary) 5

3. EITHER

(a) Differentiate between implicit cursor and explicit cursor. 5

(b) Write a procedure in PL/SQL to find the sum of digits of a given number. 5

OR

(c) What is exception ? Explain user defined exception. 5

(d) Write a PL/SQL block that uses the cursor to add special allowance of Rs. 1,000 to the total salary of the employee of department number 100. 5

4. **EITHER**

- (a) What are triggers ? Explain BEFORE and AFTER trigger. 5
- (b) What is function ? State Syntax and purpose of : 5
 - (i) Creating function
 - (ii) Dropping function.

OR

- (c) Write a note on the following : 5
 - (i) Database trigger.
 - (ii) DDL trigger.
- (d) Write a function that returns the updated salary of an employee on the basis of employee number. Increase the salary by 17%. 5

Employee (emp-no, emp-name, emp-salary)

- 5. (a) What is the use of GRANT and REVOKE command ? 2½
- (b) What are the advantages of views ? 2½
- (c) Explain calling procedures. 2½
- (d) What is Enabling, Disabling and Dropping triggers. 2½