B.A./B.Sc. (General) 5ᵗʰ Semester

(1129)

COMPUTER SCIENCE

Paper—CS10 : Relational Database Management System

Time Allowed : Three Hours]   **[Maximum Marks : 30**

Note :— Candidate is required to attempt **five** questions in all including question no. **9** (which is compulsory) and attempt remaining **four** questions by selecting **one** question from each Section.

SECTION—A

1. What do you understand by the concept of data constraints ? Discuss column level and table level constraints with suitable examples.   6

2. Discuss various data types available in SQL. Write commands for table creation and updations with suitable examples.   6

SECTION—B

3. Write notes on :

    (a) Intersection

    (b) Self Join

    (c) Group by.   6

4. What are the arithmetic and logical operators available in SQL ? How pattern matching is executed ? Explain the same with example. 6

SECTION—C

5. What is the concept of materialized views ? Write a note on type of indexes available in SQL. 6

6. Discuss the provisions of database security and privileges available in SQL through suitable command examples. 6

SECTION—D

7. Explain implicit and explicit cursor attributes. Discuss the concept of cursor management in PL/SQL with suitable example. 6

8. Write notes on :

   (a) Operator precedence.

   (b) Iterative Control. 6

COMPULSORY QUESTION

9. (a) List major features of SQL. 1

   (b) What is the role of scalar functions ? 1

   (c) How range searching is executed ? 1

   (d) How exceptions are handled in SQL ? 1

   (e) Write command for renaming and destroying tables. 1

   (f) What is the usage of functions in PL/SQL ? 1