GF—33—2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CS) (Third Year) (Sixth Semester) EXAMINATION
II   Fourth

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper BCS-403

(Relational Database Management System)

(Friday, 28-4-2023)   **Time : 2.00 p.m. to 5.00 p.m.**

Time—Three Hours   *Maximum Marks—75*

N.B. :— (i) *All* questions carry equal marks.

(ii) Figures to the write indicate full marks.

(iii) Assume suitable data, if necessary.

1. Attempt any *five* of the following :   15

(a) Explain need of join in sql.

(b) Explain various DML commands used in SQL.

(c) Explain concept of relations in RDBMS.

(d) Explain the concept of single row conversion.

(e) Explain advantages and disadvantages of RDBMS.

(f) Explain various logical operators used in SQL.

(g) What is trigger ?

P.T.O.

2. Attempt any *three* of the following :   15

   (a)   Explain various users of DBMS.

   (b)   Explain BETWEEN operator in detail.

   (c)   Explain SUM( ) and COUNT( ) functions in detail.

   (d)   Explain any *two* DDL commands.

   (e)   Explain concept of foreign key in detail.

3. Attempt any *three* of the following :   15

   (a)   Explain DISTINCT clause in detail.

   (b)   Explain the concept of join with its styles.

   (c)   What is %ROWTYPE atribute ? Explain it with example.

   (d)   Explain GROUP BY clause in detail with example.

   (e)   Explain transaction control commands in detail.

4. Attempt any *three* of the following :   15

   (a)   Write SQL query to create table student with name, roll_number and Total_marks and add three records into it.

   (b)   Explain concept of exception handling in PL/SQL.

   (c)   Explain equi joins in detail.

   (d)   Explain procedure to enable and disable triggers.

   (e)   Explain concept of contrraint in detail.

5.   Write short notes on any *three* of the following :   15

     (a)   ORDER BY Clause

     (b)   Exception handling in PL/SQL

     (c)   Single Row functions

     (d)   Outer join

     (e)   Entities.