

This question paper contains 3 printed pages]

ND—29—2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper BCS-403

(Relational Database Management System)

(Thursday, 7-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) All questions carry equal marks.

(iii) Assume suitable data, if necessary.

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

(a) Explain advantages and disadvantages of RDBMS.

(b) What is SQL ?

(c) Explain various arithmetic operators used in SQL.

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- (d) What is Join ?
- (e) Explain Declaration section of PL/SQL.
- (f) Explain concept of trigger in detail.
- (g) Explain concept of attributes in detail.

2. Attempt any *three* of the following :

15

- (a) Explain various users of DBMS.
- (b) What is RDBMS ?
- (c) Explain concepts of tuples in detail.
- (d) Explain WHERE clause with suitable example.
- (e) Explain concept of primary key in detail.

3. Attempt any *three* of the following :

15

- (a) Explain AVG() and FIRST() functions in detail.
- (b) Explain concept of views in detail.
- (c) Explain logical operators with an example.
- (d) Explain with example how table is altered in SQL.
- (e) Explain GROUP BY HAVING clause in detail with example.

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(3)

ND—29—2023

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

- (a) What is trigger ? Explain types of triggers in detail.
- (b) Explain executable command section of PL/SQL in detail with example.
- (c) Explain the procedure to enable and disable trigger with example.
- (d) Explain concept of exception handling in PL/SQL.
- (e) Explain subqueries and its types.

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

- (a) ORDER BY Clause
- (b) Multiple row functions
- (c) Types of SQL commands
- (d) Outer join
- (e) Entities.

ND—29—2023

3

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