

No. of Printed Pages : 03

Roll No.

32597

B.Sc. EXAMINATION, 2025

(Sixth Semester)

(Regular & Re-appear)

COMPUTER SCIENCE

Paper-I

Relational Data Base Management System

Time : 3 Hours]

[Maximum Marks : 40

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. (a) Define data model. **1**

- (b) What do you mean by relation ? 1
- (c) Define Unique key. 1
- (d) Define SQL. 1
- (e) What do you mean by 2NF ? 1
- (f) Define advantages of PL/SQL. 1
- (g) Define control structure in PL/SQL. 1
- (h) Define set operation. 1

Unit I

- 2. What is relational algebra ? Explain the selection and projection with Example. 8
- 3. Differentiate between relational data model and network data Model. 8

Unit II

- 4. What do you mean by normalization ? Explain any two normal forms in detail. 8
- 5. What is functional dependencies ? Explain transitive functional dependencies with its characteristics. 8

Unit III

- 6. Write a command to update a table, delete a table in SQL with suitable example ? 8
- 7. Differentiate between primary key and foreign key with suitable examples. 8

Unit IV

- 8. Explain PL/SQL character set and data types. 8
- 9. Explain declaration and assignment of variable in PL/SQL. 8

