

QP CODE: 25050636



Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION, DECEMBER 2025

First Semester

M.Sc STATISTICS (APPLIED)

Core Courses - ST030102 - DATABASE MANAGEMENT SYSTEM

2019 Admission Onwards

F89247A9

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Define DDL.
2. What is a Schema Diagram?
3. Define Query.
4. Name the statements used to end the transactions.
5. Define the integrity constraint 'Check'.
6. Define Transitivity Rule.
7. Define Object Oriented Languages.
8. What are transient objects?
9. Define a Skew.
10. What is a Data Warehouse?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Define ACID property.
12. What is the importance of Failure Recover in a DBMS?
13. Describe briefly the built-in aggregate functions of SQL.
14. Discuss few undesirable properties that a bad database system may have.





15. Write an example to show how a class is defined in Object Oriented database model.
16. Write brief note on the Nested Relational Model.
17. Briefly explain various Data Fragmentation strategies.
18. Distinguish between Logical and Global Transactions.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain weak and strong entity sets. Draw and explain E-R diagram that corresponds to weak entity set.
20. Make a detailed note on the basic set operations in SQL with relevant examples.
21. Explain how to Query with Complex Types. What is the use of nesting and unnesting while Querying with complex types?
22. Make a detailed note on Data Mining and its Applications.

(2×5=10 weightage)

