

20. (a) Classify the normalization procedure with examples.

Or

- (b) Explain decomposition using functional dependency.
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S.No. 9280

NSCS 4/NSIT 4

(For candidates admitted from 2018–2019 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

**Part III – Computer Science/Information Technology –
Major**

**RELATIONAL DATABASE MANAGEMENT
SYSTEMS**

Time : Three hours

Maximum : 100 marks

SECTION A — (10 × 2 = 20)

Answer ALL questions.

1. Define database.
2. Define transaction.
3. What is a null value?
4. What is relational model?
5. Define query.
6. What is a constraint in database?
7. Explain ER diagram.
8. Define schema in a database.

9. What is decomposition?

10. Define Normalization.

SECTION B — (5 × 6 = 30)

Answer ALL questions, choosing either (a) or (b).

11. (a) List out the applications of a database.

Or

(b) Discuss the history of database system.

12. (a) Explain about relational model in database systems.

Or

(b) Explain extended relational algebra operations.

13. (a) Interpret integrity constraints in sql with example.

Or

(b) List out various set operators with examples.

14. (a) Elaborate on domain relational calculus.

Or

(b) Explain about the basic issues in the design of an ER database.

15. (a) Explain features of good database design.

Or

(b) Extend your views about Decomposition.

SECTION C — (5 × 10 = 50)

Answer ALL questions, choosing either (a) or (b).

16. (a) Write a note on database languages.

Or

(b) Categorize the various views of data.

17. (a) Explain the structure of relational database.

Or

(b) List out the relational algebra operations with examples.

18. (a) List the various Datatypes in SQL.

Or

(b) Write the syntax and declaration to Create a table in Oracle with example.

19. (a) Explain database design for banking application.

Or

(b) Define Constraints and explain the types of constraints.