



K25U 2712

Reg. No. : .....

Name : .....

V Semester B.A./B.A. Afsal-UI-Ulama/B.Sc./B.Com./B.T.T.M./B.B.A./  
B.B.A. – T.T.M./B.B.A. – A.H./B.C.A./B.S.W./B.M.C. Degree  
(C.B.C.S.S. – O.B.E. – Regular/Supplementary/Improvement)

Examination, November 2025

(2019 to 2023 Admissions)

Generic Elective Course

5D03BCA : DATABASE MANAGEMENT SYSTEM

Time : 2 Hours

Max. Marks : 20

SECTION – A

Answer **all the** questions.

(6×1=6)

1. A \_\_\_\_\_ is a collection of interrelated data stored in a structured format.
2. The \_\_\_\_\_ model uses tables to represent data and relationships.
3. The \_\_\_\_\_ operator in relational algebra combines tuples from two relations.
4. The \_\_\_\_\_ clause is used in SQL to filter groups based on a condition.
5. \_\_\_\_\_ is a process of organizing data to reduce redundancy.
6. In an ER diagram, \_\_\_\_\_ represent the attributes of entities.

SECTION – B

Answer **any four** questions.

(4×2=8)

7. Mention two differences between logical and physical data models.
8. What are the components of a relational database table ?
9. Describe the SELECT and PROJECT operations in relational algebra.

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10. Write SQL syntax to create a table named employee with three fields.
11. What are functions in SQL ? Give examples.
12. What is normalization ? Mention its benefits.

SECTION – C

Answer **any one** question.

(1×6=6)

13. Explain the different types of relationships in an ER model with examples.
14. Describe the basic architecture of a DBMS with a labeled diagram.

