

D4BCA2201

Reg. No:

Name:

**FOURTH SEMESTER UG DEGREE EXAMINATION, APRIL 2024
(Regular/Improvement/Supplementary)**

BCA

GBCA4B05T: DATABASE MANAGEMENT SYSTEM & RDBMS

Time:2Hours

MaximumMarks: 60

**SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 Marks)**

1. What is aggregation?
2. Define instance of a database.
3. What is the use of check operator?
4. Define cardinality of relation.
5. Explain the concept of weak entity.
6. Distinguish between logical data independence and physical data independence.
7. Give any two advantages of DBMS.
8. What is meant by anomalies?
9. Differentiate between DROP and DELETE in table.
10. Explain any two duties of DBA.
11. List out aggregate functions.
12. Explain the CREATE TRIGGER statement.

**SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 Marks)**

13. Who are the different users of a database system? Explain their roles.
14. What are the symbols used in ER model?
15. Describe any three operations of relational algebra.
16. Explain Boyce codd and Fourth normal form with example.
17. Discuss UNIQUE, NOT NULL constraints with example.
18. Differentiate between normal sub queries and correlated sub-queries.
19. Write a pl/sql code to add 10 numbers and print the sum.

SECTION C: Answer any *one* question. Each carries *ten*marks.

20. What is functional dependency? Explain types of functional dependencies.
21. What is transaction? Explain important properties and states of transaction.

(1x 10 = 10 Marks)