

**FOURTH SEMESTER UG DEGREE EXAMINATION, APRIL 2023**  
**(Regular/Improvement/Supplementary)**

**BCA**

**GBCA4B05T: DATABASE MANAGEMENT SYSTEM & RDBMS**

**Time: 2 Hours**

**Maximum Marks: 60**

**SECTION A: Answer the following questions. Each carries *two* marks.**

**(Ceiling 20 Marks)**

1. What do you mean by data independence?
2. Give any two disadvantages of file system?
3. Define data models?
4. What is DBMS? What are its components?
5. What is the use of keys?
6. Define normalization?
7. Differentiate full functional dependency and partial functional dependency with example.
8. Define Boyce codd normal form?
9. Explain *ANY* and *ALL* keyword with example.
10. Write the use of EXIT statement with example.
11. What is meant by table level lock?
12. Write the syntax of WHILE loop.

**SECTION B: Answer the following questions. Each carries *five* marks.**

**(Ceiling 30 Marks)**

13. Explain about three schema architecture with diagram?
14. Distinguish between strong and weak entities with example?
15. Explain third normal form and second normal form with example.
16. Define anomalies. Explain types of anomalies.
17. Explain the function of GROUP BY, HAVING and ORDER BY with example.
18. Distinguish between serial schedule and serializable schedule.
19. Write notes on Exception handling in pl/sql.

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

20. How to map relational database using ER relational mapping? Explain.
21. What are the constraints used in tables? Explain with suitable example.

**(1 x 10 = 10 Marks)**