

**Question Bank (G scheme)**

**Name of subject: Relational Database Management System (RDM)**

**Unit Test:I**

**Subject Code: 17332**

**Course:CM3G/IF**

**Semester: III**

**CHAPTER 1- Database System Concept (16 marks)**

**3 marks**

1. Define Data Abstraction and its levels.
2. Explain the term Database Schema & Instance.
3. Define Data Independence and what its type is.
4. List the functions of Database Administrator.

**4 marks**

5. Explain advantages of DBMS over File Processing System.
6. What is RDBMS & write difference between DBMS & RDBMS?
7. Draw Overall structure of DBMS.
8. Explain types of Database User.
9. Explain in brief Client Server Architecture with the example.
10. Explain any four Codd's rules/ Law of RDBMS.
11. Define Data Warehousing & Data Mining.

**CHAPTER2-Relational Data Model and Security and Integrity Specification (22 marks)**

**3 marks**

12. Define Tuple, Attributes & Domain.
13. Explain the term Primary Key & Candidate Key with example.

**4 marks**

14. What is meant by Data Model? Describe Network Model.
15. Compare Relational Model with Network Model.
16. List various symbols used to sketch ER diagrams with their meanings and examples.
17. Draw E-R Diagram of college system. The college keeps the data of Students, Employees, and Books.
18. Explain Entity Integrity Constraint with examples.
19. Explain Referential Integrity Constraint and On Delete Cascade with suitable example.
20. What is select and project operator in relational algebra? Give one example.
21. Consider following relational schema  
STUDENT (RNO,Name,DOB,Percentage,DNO)  
DEPARTMENT (DNO, DNAME,HEAD)

Write relational algebra expressions:

- a) Find students name & course from computer department
  - b) Get students name who has percentage greater than 70.
22. Explain Multivalued Dependency with example.

**CHAPTER3 -Interactive SQL (26 marks)**

**4 marks**

23. What are the different Data Type of SQL? Explain with example.
24. Explain any four DDL commands with syntax and example.
25. Explain any four DML commands with syntax and example