

**BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)**  
**B. Tech. Sem - III COMPUTER SCIENCE & ENGINEERING-A&M : SUMMER : 2024**  
**SUBJECT: DATABASE MANAGEMENT SYSTEMS**

Day : Wednesday  
Date : 15/05/2024

S-23939-2024

Time : 02:30 PM-05:30 PM  
Max. Marks : 60

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labelled diagrams **WHEREVER** necessary.

Q.1 Explain the levels of Data Abstraction. (10)

OR

Q.1 Describe the concept of Data Models and Role of DBA. (10)

Q.2 Describe in brief Modelling of UNION types using categories. (10)

OR

Q.2 Describe the concept of Subclasses and Inheritance in details. (10)

Q.3 What is DDL? What are the different operations performed using DDL. Explain with suitable example. (10)

OR

Q.3 Explain the concept of Cursors and Triggers with suitable example. (10)

Q.4 Explain Boyce-Codd Normal Forms. (10)

OR

Q.4 Explain Concurrency Control with suitable example. (10)

Q.5 Explain Tuple Relational calculus and Domain relational calculus. (10)

OR

Q.5 Explain Codd's rule. (10)

Q.6 Draw and explain Client-Server architecture. (10)

OR

Q.6 Explain different types of Distributed Database System. (10)

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