

B.Sc. IT 4th SEMESTER
CORE PAPER - II
BIT417C2: DATABASE MANAGEMENT SYSTEM

Maximum Marks: 60

Minimum Marks: 24

Attempt all the questions. Each question carries 6 marks.

- Q1. What is Normalization? Explain in detail about all Normal Forms?
- Q2. Elaborate the three-level architecture of database system.
- Q3. What is Entity Relationship Model? Explain the major constructs of ER model with examples.
- Q4. Explain the following:
1. Advantages of DBMS over Traditional File Based System
 2. Three Level DBMS Architecture
 3. Components of DBMS
- Q5. What is Data Model in DBMS and what are its Types?
- Q6. What is ER Model and discuss the following with respect to ER Model?
1. ER Diagram
 2. Components of ER Diagram
- Q7. What is Functional Dependency? Define Various Types of Functional Dependencies?
- Q8. What is SQL? Write down the Following with respect to SQL:
1. DDL Commands
 2. DML Commands
 3. DCL Commands
- Q9. What is PL/SQL? And Explain the Following
1. Difference Between Functions and Procedures
 2. Difference Between SQL and PL/SQL
 3. Difference Between Triggers and Cursors
- Q10. What are keys? Discuss Various Types of Keys in DBMS?