



**SHRI GNANAMBICA DEGREE COLLEGE, MADANAPALLE
(AUTONOMOUS)**



PROGRAMME: B. Sc (Computer Science)

II YEAR-IV-SEM

COURSE: Database Management System

QUESTION BANK

Question Bank

UNIT – I

SHORT ANSWERS

1. Define data and information.
2. What is a data model?
3. What is a file-based system?
4. What is data redundancy and data inconsistency?
5. costs and risks of database approach

LONG ANSWERS

1. Describe the file-based system and its drawbacks.
2. Explain the database approach and its advantages.
3. What is data model Explain various types of data models in detail?
4. Explain the three-schema architecture of DBMS.
5. Explain Components of Database Management System

UNIT – II

SHORT ANSWERS

1. What is an ER model? Explain advantages of ER modeling?
2. Define entity and entity set?
3. Explain relationship degree?
4. What is generalization?
5. What is an attribute?

LONG ANSWERS

1. Explain the components of ER model in detail?

2. Explain reducing ER diagram to tables in detail?
3. Explain relationship classification in ER model?
4. What is EER MODEL? Explain in detail
5. Explain generalization and specialization?

UNIT – III

SHORT ANSWERS

1. What is the relational model? Explain the relational model terminology?
2. Define relation and tuple.
3. What is a primary key and foreign key?
4. What is functional dependency?
5. Explain the advantages of relational algebra ?

LONG ANSWERS

1. Explain Codd's rules.
2. Describe types of keys with examples.
3. Explain relational algebra operations.
4. Explain relational integrity in detail?
5. What is normalization? Explain 1NF, 2NF and 3 NF with example?

UNIT – IV

SHORT ANSWERS

1. What is SQL? Explain Characteristics of SQL?
2. Explain datatypes in SQL?
3. Explain alter command?
4. What are aggregate functions?
5. Selection Operation in sql?
6. TCL commands in SQL
7. Explain set operators in SQL?

LONG ANSWERS

1. Explain SQL commands in detail.?
2. Explain DDL commands with examples.?

3. Explain DML commands with examples.?

4. Explain joins in SQL.?

5. Explain subqueries ?

6. Explain Views in SQL?

UNIT – V

SHORT ANSWERS

1. What is PL/SQL?

2. Explain Shortcomings or limitations of SQL.?

3. Datatypes in PL/SQL?

4. Operators and their Precedence In PL/SQL?

5. What is a trigger?

LONG ANSWERS

1. Explain PL/SQL Language Elements in detail?

2. Explain the structure of PL/SQL block in detail?

3. Explain control structures in PL/SQL?

4. Explain procedure and function IN DETAIL?

5. Explain database triggers and types of triggers IN DETAIL?