

**Second Semester FYUGP Degree (Reg/Sup/Imp) Examination  
April 2026**

**KU2DSCCAP109 - INTRODUCTION TO DATABASE  
MANAGEMENT SYSTEM**

2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

**Section A**

Answer any 6 questions. Each carry 2 marks.

1. What is SQL? Name any two advantages of using SQL.
2. How does the ALTER command modify a database table?
3. Give an example of logical operator
4. What are arithmetic operators in SQL? Give an example.
5. How is a candidate key different from a primary key?
6. What is the purpose of selection operation in relational algebra?
7. What is the role of DBMS software in handling databases?
8. What is an attribute in the relational model?

**Section B**

Answer any 4 questions. Each carry 6 marks.

9. Draw a simple E-R diagram for a "Student" and "Course" database. Explain the relationships and attributes involved.
10. What are keys in a relational database? Explain their importance and different types of keys used in DBMS.
11. S and R are two relations. compare  $R - S$  and  $R \times S$  with the help of example.
12. What are the real-time applications of DBMS?
13. What is View? Explain it.
14. How does the relational model improve upon the hierarchical and network models?

**Section C**

Answer any 1 questions. Each carry 14 marks.

15. Explain different types of database languages in SQL (DDL & DML). Provide examples of commands used in each type. How do these languages help in database management?
16. Explain the use of ORDER BY, GROUP BY, and HAVING clauses in SQL. Provide suitable example queries to demonstrate their differences and usage.

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