Second Semester FYUGP Computer Science Examination
APRIL 2025 (2024 Admission onwards)
KU2DSCCAP109 (INTRODUCTION TO DATABASE MANAGEMENT SYSTEM)
(DATE OF EXAM: 30-4-2025)

Time : 90 min   Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. Define DBMS and explain its role in managing data.   2

2. How is a candidate key different from a primary key?   2

3. Name the different types of database languages in SQL.   2

4. Differentiate drop and delete command?   2

5. Write a simple SQL query using the SELECT statement.   2

6. List any four aggregate functions in SQL.   2

7. What is a VIEW in SQL? How is it useful?   2

8. How does the GROUP BY clause work in SQL?   2

Part B (Answer any 4 questions. Each carries 6 marks)

9. How are databases used in banking and Healthcare sectors?   6

10. What are keys in a relational database? Explain their importance and different types of keys used in DBMS.   6

11. Explain integrity Constraints ?   6

12. Explain the DML commands in SQL with syntax and examples.   6

13. Perform the following
    a) Display name of student from student table whose name start with letter A.
    b) Display mark of students whose mark is greater than 45
    c) Find the total mark of student   6

14. What is a subquery in SQL? Explain with an example using a comparison operator.
                                                                        6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. Define functional dependency and explain its types (full, partial, transitive). How does functional dependency impact database normalization? Provide examples to support your explanation   14

16. Explain the three levels of data abstraction in DBMS. Discuss how these levels help in efficient database management system with examples.   14