K25FY2412 C

Reg No:.... Name :....

Second Semester FYUGP Computer Science Examination APRIL 2025 (2024 Admission onwards) KU2DSCCAP109 (INTRODUCTION TO DATABASE MANAGEMENT SYSTEM)

(DATE OF EXAM: 2-5-2025)

Time: 90 min Maximum M	arks : 50
Part A (Answer any 6 questions. Each carries 2 marks) 1. What is a DBMS?	2
2. What is a domain in a relational database? Give an example.	2
3. What are the main components of a simplified DBMS structure?	2
4. What is a foreign key, and how does it relate two tables in a database?	2
5. What is the purpose of selection operation in relational algebra?	2
6. Define data integrity?	2
7. List any two data types used in SQL.	2
8. What are arithmetic operators in SQL? Give an example.	2
Part B (Answer any 4 questions. Each carries 6 marks)	
9. How are databases used in banking and Healthcare sectors?	• 6
10. What is View?Explain it.	. 6
11. Draw a simple E-R diagram for a "Student" and "Course" database. Ex relationships and attributes involved.	plain the 6
12. Compare union and intersection operation in relational algebra with su ample	itable ex- 6
13. Explain integrity Constraints ?	6
14. Write a SQL query to display the names of customers whose names start letter 'J' or 'K' .Use the LIKE operator and the OR logical operator?	with the 6
Part C (Answer any 1 question(s). Each carries 14 marks)	
15. A company wants to modify its database structure by adding a new comployee email addresses. Write SQL queries to: (a) Create an Employ (b) Add a new column for email. (c) Drop an unnecessary column.	
16 How does the GROUP BY clause work with aggregate functions? Write	an SOL