



Roll No.											
----------	--	--	--	--	--	--	--	--	--	--	--

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 09-10-2025

Time: 11.45am to 01.15pm

School: SOIS	Program: BCA	
Course Code: CSA2503	Course Name: Relational Database Management System	
Semester: III	Max Marks: 50	Weightage: 25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	10	20	20		

Instructions:

- (i) *Read all questions carefully and answer accordingly.*
- (ii) *Do not write anything on the question paper other than roll number.*

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Define a database.	2 Marks	L	CO1
2	Enumerate the Six basic operators of Relational Algebra.	2 Marks	L	CO1
3	What is data abstraction in SQL, and how is it achieved?	2 Marks	L	CO1
4	Identify and explain the statement used to modify an existing database object.	2 Marks	L	CO1
5	Recognize the constraint that ensures all values in a column satisfies a specific condition with an example.	2 Marks	L	CO1

Part B

Answer the Questions.

Total Marks 40M

6.	a.	What is the purpose of a Data Model. Explain any 3 Data Models.	10 Marks	L	CO2
-----------	-----------	---	-----------------	----------	------------

Or

7.	a.	Differentiate Schemas versus Instances.	10 Marks	L	CO2
-----------	-----------	---	-----------------	----------	------------

8.	a.	Identify the steps to be followed to create an ER model for the Banking database application, illustrating the same with a neat ER diagram.	10 Marks	L	CO2
-----------	-----------	---	-----------------	----------	------------

Or

9.	a.	Identify the three basic Components of ER Diagram explaining the same with clear examples.	10 Marks	L	CO2
-----------	-----------	--	-----------------	----------	------------

10.	a.	Illustrate DML commands illustrating the same by creating a student table with attributes srno, name and course with suitable datatypes and length having a cardinality of 3.	10 Marks	L	CO3
------------	-----------	---	-----------------	----------	------------

Or

11.	a.	Illustrate DDL commands illustrating the same by creating a student table with attributes srno, name and course with suitable datatypes and length. Alter this table to add a new attribute phone having integer as data type.	10 Marks	L	CO3
------------	-----------	--	-----------------	----------	------------

12.	a.	Demonstrate how SQL Logical Operators are used, clearly showcasing it by applying at least 3 Logical operators for demonstration.	10 Marks	L	CO3
------------	-----------	---	-----------------	----------	------------

Or

13.	a.	Demonstrate how SQL Comparison Operators are used, clearly showcasing it by applying at least 3 comparison operators for demonstration.	10 Marks	L	CO3
------------	-----------	---	-----------------	----------	------------