PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 28-10-2025   **Time:** 02.30Pm to 04.00Pm

School: SOIS-PG	**Program:** MCA	
Course Code: CSA4202	**Course Name:** Database System	
Semester: I	**Max Marks**:50	**Weightage**:25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	26	24			

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	List the characteristics of database approach.	2 Marks	L	CO1
2	Explain DCL and its various statements in detail.	2 Marks	L	CO1
3	Illustrate physical data independence	2 Marks	L	CO1
4	Defne schema and instance.	2 Marks	L	CO2
5	Enumerate multivalued attributes.	2 Marks	L	CO2

Part B

Answer the Questions.   **Total Marks 40M**

6.	a.	What is the Database? Explain the advantages of database approach.	10 Marks	L	CO1
		Or			
7.	a.	What is the purpose of a Data Model. Explain any 3 Data Models.	10 Marks	L	CO1

8.	a.	Enumerate different types of anomalies.	10 Marks	L	CO1
		Or			
9.	a.	List and explain the different types of DBMS languages.	10 Marks	L	CO1

10.	a.	Explain the need of normalization.	10 Marks	L	CO2
		Or			
11.	a.	Illustrate 2NF,3NF and BCNF.	10 Marks	L	CO2

12.	a.	Explain with illustration the various Components of ER Diagram.	10 Marks	L	CO2
		Or			
13.	a.	Enumerate and explain the various Entity Types and Key Attributes of an ER diagram.	10 Marks	L	CO2