PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 29-10-2025   **Time:** 02.30pm to 04.00pm

School: SOIS-PG	**Program**: MCA
Course Code : CSA4005	**Course Name:** CLOUD COMPUTING
Semester: III	**Max Marks**: 50 **Weightage**:25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	24	26	-	-	-

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 Cloud Computing.	2 Marks	L1	CO1
2	List any two essential characteristics of Cloud Computing.	2 Marks	L1	CO1
3	What is Virtualization?	2 Marks	L1	CO2
4	Mention any two advantages of virtualization in cloud computing.	2 Marks	L2	CO2
5	Write a short note on Hypervisor.	2 Marks	L2	CO2

Part B

Answer the Questions.   Total Marks 40M

6.	a.	Explain the evolution of cloud computing and discuss how it provides flexibility and scalability to organizations.	10 Marks	L2	CO1
		Or			
7.	a.	Cloud computing evolved from distributed systems and grid computing. Analyze this transition and highlight its benefits.	10 Marks	L3	CO1

8.	a.	With suitable examples, compare IaaS, PaaS, and SaaS models in terms of control, responsibility, and target users.	10 Marks	L2	CO1
		Or			
9.	a.	"The type of cloud deployment chosen defines the level of control and security." Justify this statement by analyzing Public, Private, and Hybrid Clouds.	10 Marks	L3	CO1

10.	a.	Discuss the taxonomy of virtualization techniques and their relevance in modern cloud environments.	10 Marks	L2	CO2
		Or			
11.	a.	Evaluate how different types of virtualization enhance resource utilization in cloud infrastructure.	10 Marks	L3	CO2

12.	a.	Explain the various implementation levels of virtualization. Illustrate with examples how each contributes to cloud efficiency.	10 Marks	L2	CO2
		Or			
13.	a.	Virtualization underpins the elasticity of cloud services. Analyze this statement using real-world cloud provider examples.	10 Marks	L3	CO2