Roll No: | | | | | | | | | | | |

PRESIDENCY UNIVERSITY

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Approved by AICTE, New Delhi | Approved By BCI
Bengaluru

Mid Term Examinations - October 2026

Date: 05/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: CSS2285 **Course Name:** Cloud Computing

Semester: Fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	90	90

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Define multi-tenancy	2	CO1	BT2
2	What is abstraction in cloud computing?	2	CO1	BT2
3	List the key components of Cloud Reference Architecture.	2	CO2	BT2
4	What is a Type 1 Hypervisor?	2	CO2	BT2
5	How are containers different from VMs?	2	CO2	BT3

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain grid computing and its characteristics.	10	CO1	BT2
7	Explain the core characteristics of cloud computing.	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Explain in detail the important design principles of cloud computing. Discuss how these principles help in achieving scalability, reliability, availability, security, flexibility, and cost-effectiveness in cloud-based systems, with suitable examples.	10	CO1	BT3
9	Discuss the key architectural principles of cloud computing with suitable examples. Explain how each principle contributes to the effective design and implementation of cloud-based applications and services.	10	CO1	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain Cloud Reference Architecture and its major components.	10	CO2	BT2
11	Explain Multitenant Technology in Cloud Computing and its advantages.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT

12	Explain the concept of hypervisors in cloud computing. Describe the architecture and working of Type 1 and Type 2 hypervisors, and differentiate between them based on their architecture, performance, security, resource utilization, and use cases. Support your explanation with suitable examples of each type.	10	CO2	BT3
13	Explain the concept of Virtual Machines (VMs) in detail. Describe their architecture, working, and key characteristics, and discuss the important role of Virtual Machines in cloud computing with respect to resource utilization, scalability, isolation, flexibility, and cost efficiency. Provide suitable examples.	10	CO2	BT3