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

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

PRESIDENCY UNIVERSITY

Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956
Approved by AICTE, New Delhi | Approved By BCI
Bengaluru

Mid Term Examinations - October 2026

Date: 08/10/2026 **Time:** 11:45 AM - 01:15 PM

Course Code: CSE2285 **Course Name:** Cloud Computing

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

CO - Levels	CO1	CO2
Marks	44	46

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	What is resource pooling in cloud computing?	2	CO1	BT1
2	State any two design principles of cloud computing.	2	CO1	BT2
3	Define multitenancy in cloud computing.	2	CO2	BT2
4	What is a Virtual Machine (VM)?	2	CO2	BT1
5	List the four cloud deployment models.	2	CO2	BT2

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain the motivation and need for cloud computing in modern organizations.	10	CO1	BT2
7	A banking organization wants to keep sensitive customer data within its own infrastructure while using public cloud resources during peak workloads. Select a suitable cloud deployment model and demonstrate how it meets the requirement.	10	CO2	BT3

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Describe the major design principles of cloud computing and their significance.	10	CO1	BT2
9	A software company needs to run multiple operating systems on a single physical server for application testing. Apply virtualization concepts to propose a suitable solution.	10	CO2	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain the key differences among public, private, and hybrid cloud deployment models with respect to their infrastructure, ownership, accessibility, and resource management.	10	CO2	BT2
11	A college wants to provide online learning resources to students without purchasing additional physical servers. Apply suitable cloud computing concepts to address this requirement.	10	CO1	BT3

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
12	illustrate the architectural framework of containerization by describing its fundamental components and their respective roles in creating and managing isolated application environments.	10	CO2	BT2
13	An online examination portal has 500 users on normal days but nearly 10,000 users during examinations. Show how cloud computing can be applied to manage this variation in demand.	10	CO1	BT3