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: 07/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: CDV3400 **Course Name:** Fundamentals of Cloud Computing

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

CO - Levels	CO1	CO2
Marks	30	60

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Q1. What is Cloud Computing? Give one example.	2	CO1	BT1
2	Q2. Mention any two benefits of Cloud Computing.	2	CO1	BT1
3	Q3. Differentiate between SaaS and PaaS.	2	CO1	BT1
4	Q4. What is a Virtual Machine?	2	CO1	BT1
5	Q5. What is a Docker Container?	2	CO1	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Q6. Explain the main characteristics of Cloud Computing. Discuss on-demand self-service, resource pooling, rapid elasticity, and measured service.	10	CO1	BT2
7	Q7. Explain how Distributed Systems, Virtualization, Web 2.0, and Utility-Oriented Computing contributed to the development of Cloud Computing.	10	CO2	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Q8. Explain the difference between vertical scaling and horizontal scaling in cloud computing. Give a suitable example for each.	10	CO2	BT2
9	Q9. Explain Public Cloud and Private Cloud. State two differences between them. Also briefly describe Hybrid Cloud and Community Cloud.	10	CO1	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Q10. Explain the major steps and components involved in building a Cloud Computing environment, including application development, infrastructure, and computing platforms.	10	CO2	BT3
11	Q11. What is Virtualization? Explain Type 1 and Type 2 Hypervisors with a simple diagram and suitable examples.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT

12	Q12. What is Docker? Explain Docker Image, Docker Container, and Dockerfile with a simple Docker workflow.	10	CO2	BT2
13	Q13. What is Container Orchestration? Explain its need in Cloud Computing and mention any four functions performed by a container orchestration system.	10	CO2	BT2