



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.																			
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Mid - Term Examinations - MARCH 2026

Date: 10-03-2026

Time: 09:30am - 11:00am

School: PSCS	Program: B.Tech.Computer Science and Technology (DevOps)		
Course Code: CDV2510	Course Name: Edge Computing and DevOps		
Semester: VI	Max Marks: 50	Weightage: 25%	

CO - Levels	C01	C02	C03	C04	C05
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	Explain why edge computing reduces latency compared to cloud computing.	2 Marks	L2	C01
2	Describe the role of edge devices in the edge-to-cloud continuum.	2 Marks	L2	C01
3	Explain the importance of CI in the DevOps lifecycle.	2 Marks	L2	C02
4	Illustrate how Infrastructure as Code improves deployment consistency.	2 Marks	L2	C02
5	Explain why monitoring is essential in DevOps environments.	2 Marks	L2	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain the architecture of edge computing and analyze how it supports real-time applications.	10 Marks	L4	CO1
Or					
7.	a.	Compare edge computing and cloud computing with respect to latency, bandwidth usage, security, and real-world use cases.	10 Marks	L4	CO1

8.	a.	Explain the edge-to-cloud continuum and discuss its significance in modern distributed systems.	10 Marks	L3	CO1
Or					
9.	a.	Analyze the role of edge computing in IoT applications with suitable real-world examples.	10 Marks	L3	CO1

10.	a.	Explain the DevOps lifecycle and analyze how CI/CD improves software delivery.	10 Marks	L3	CO2
Or					
11.	a.	Describe CI/CD concepts and illustrate their role in automating the software development process.	10 Marks	L3	CO2

12.	a.	Explain containerization using Docker and analyze its role in DevOps workflows.	10 Marks	L4	CO2
Or					
13.	a.	Discuss container orchestration and explain the role of Kubernetes and K3s in managing containerized applications.	10 Marks	L4	CO2