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: 05/10/2026 **Time:** 02:00 PM - 03:30 PM

Course Code: CDV2000 **Course Name:** DevOps Foundations

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

CO - Levels	CO1	CO2
Marks	46	44

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	List the seven phases of the Software Development Life Cycle.	2	CO1	BT1
2	What is Agile development?	2	CO1	BT1
3	What does CALMS stand for in DevOps?	2	CO1	BT1
4	What is the purpose of the Git staging area?	2	CO2	BT1
5	What is Continuous Deployment?	2	CO2	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain the purpose of the seven phases of the SDLC: Planning and Requirement Analysis, Defining Requirements, Designing Software, Development, Testing, Deployment and Maintenance.	10	CO1	BT2
7	Compare the Waterfall Model and Agile approach based on their development process, handling of requirements and feedback.	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Explain Continuous Development, Continuous Integration, Continuous Testing and Continuous Monitoring as phases of the DevOps Lifecycle.	10	CO1	BT2
9	A team wants to improve collaboration, automate software delivery, reduce waste, measure performance and share knowledge. Apply the five CALMS principles to this situation and give one suitable practice for each principle.	10	CO1	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain the difference between git add, git commit, git push, git pull and git fetch.	10	CO2	BT2
11	A team has two developers working on separate features using Git branches. Their changes need to be combined into the main branch. Describe the steps involved and explain how a merge conflict can be handled.	10	CO2	BT3

PART E: Answer Any 1 Following Questions. 10 M

PTO (Please Turn Over)

Q.N.	Questions	M	CO	BT
12	Explain GitHub Actions and describe the role of events, jobs, steps and runners in a workflow.	10	CO2	BT2
13	A development team wants every code change to be automatically built, tested and checked before it is accepted. Design a simple CI workflow using Git, build automation, testing, static analysis and a quality gate.	10	CO2	BT3