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

PRESIDENCY UNIVERSITY

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

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Bengaluru

Mid Term Examinations - October 2026

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

Course Code: CDV2507 **Course Name:** Kubernetes and Container Orchestration

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	Define Containerization.	2	CO1	BT1
2	Describe the mechanism used by containers to isolate processes.	2	CO1	BT2
3	List different liveness probes in kubernet and mention it’s usage	2	CO2	BT1
4	Explain port conflict.	2	CO2	BT2
5	List the components of a pod YAML file.	2	CO2	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Differentiate between virtual machine and Container Technology.	10	CO1	BT2
7	Define containrization.Explain about various containerization tools.	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Explain about various Docker commands.	10	CO1	BT2
9	Explain about various Kubernetes Installation methods.	10	CO1	BT2

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain how Kubernetes monitors container health and automatically restarts failed or unhealthy containers.	10	CO2	BT2
11	Explain about deployment. Describe the steps to create a deployment in Kubernetes.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
12	Explain Replication Controller and Its components with neat diagram.	10	CO2	BT2
13	Explain how does the Kubernetes Perform a Liveness Check?	10	CO2	BT2