Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 27-10-2025 **Time:** 11.00am to 12.30pm

School: SOCSE/SOE	**Program:** BTech. CST-CDV	
Course Code : CDV3402	**Course Name:** Serverless Computing	
Semester: VII	**Max Marks**: 50	**Weightage**: 25%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**26**	**24**			

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	What is a "traditional" computing model in the context of cloud evolution?	**2 Marks**	**L1**	**CO1**
2	What is container-based deployment?	**2 Marks**	**L1**	**CO1**
3	Define statelessness, automated scaling, Orchestration and choreography.	**2 Marks**	**L1**	**CO1**
4	Name any three cloud service providers and describe briefly how does it work.	**2 Marks**	**L1**	**CO2**
5	What is time out w.r.t a container?	**2 Marks**	**L1**	**CO2**

Part B

Answer the Questions. **Total Marks 40M**

6.	**a.**	Explain core characteristics of serverless computing.	**10 Marks**	**L2**	**CO1**
	b.	Tabularize Serverless vs. traditional vs. container-based models.	**10 Marks**	**L2**	**CO1**
		OR			
7.	**a.**	Explain evolution of cloud computing.	**10 Marks**	**L2**	**CO1**
	b.	What is FaaS and BaaS? Explain working of FaaS. Give real-world use cases for each and explain how they empower developers.	**10 Marks**	**L2**	**CO1**

8.	**a.**	Describe the internal execution flow of FaaS.	**10 Marks**	**L2**	**CO2**
	b.	Discuss the step by step working of a serverless web application using AWS.	**10 Marks**	**L2**	**CO2**
		OR			
9.	**a.**	Explain the common patterns & internal consideration of FaaS platform.	**10 Marks**	**L2**	**CO2**
	b.	With a neat sketch and explain the importance and working of API gateway.	**10 Marks**	**L2**	**CO2**