Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – December 2025

Date: 13 – 12- 2025 **Time:** 01:00pm – 04:00pm

School: SOCSE	**Program:** B. Tech	
Course Code: CSE3095	**Course Name:** Cloud Security	
Semester: VII	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**23**	**27**	**27**	**23**	

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. **10Q x 2M=20M**

1.	Describe any two common use cases of cloud computing?	**2 Marks**	**L2**	**CO1**
2.	Recite, how do you access cloud services?	**2 Marks**	**L1**	**CO1**
3.	Describe identity management.	**2 Marks**	**L2**	**CO2**
4.	Distinguish between traditional hosting and cloud hosting.	**2 Marks**	**L2**	**CO2**
5.	Outline the role of artificial intelligence in cloud computing.	**2 Marks**	**L1**	**CO2**
6.	Differentiate between internal and external security requirements.	**2 Marks**	**L2**	**CO3**
7.	What are the details to be recorded in IT audit logs?	**2 Marks**	**L1**	**CO3**
8.	What are the primary goals of BIA?	**2 Marks**	**L1**	**CO3**
9.	Paraphrase the role of infrastructure as code (IaC).	**2 Marks**	**L2**	**CO4**
10.	Describe any two performance metrics of a cloud application.	**2 Marks**	**L2**	**CO4**

Part B

Answer the Questions. **Total Marks 80M**

11.	**a.**	With a neat diagram illustrate cloud computing architecture in detail.	**10 Marks**	**L3**	**CO1**
	b.	Illustrate with an example how SPI model is different from cloud delivery model.	**10 Marks**	**L3**	**CO1**
		Or			
12.	**a.**	Discuss cloud migration approaches and list its benefits.	**10 Marks**	**L3**	**CO1**
	b.	With a neat diagram illustrate deployment models and their benefits.	**10 Marks**	**L3**	**CO1**

13.	**a.**	Explain real-world cloud security challenges and solutions.	**10 Marks**	**L2**	**CO2**
	b.	What is incident response? Illustrate the life cycle of security incident response.	**10 Marks**	**L3**	**CO2**
		Or			
14.	**a.**	What is virtualization? With neat diagram discuss virtualization security management in detail.	**10 Marks**	**L3**	**CO2**
	b.	Define autonomic security? Explain how autonomic security works and List the different autonomic computing characteristics.	**10 Marks**	**L2**	**CO2**

15.	**a.**	Explain cloud secure development practices.	**10 Marks**	**L2**	**CO3**
	b.	Discuss different types of secure cloud software testing**.**	**10 Marks**	**L3**	**CO3**
		Or			
16.	**a.**	Define BCP? With a neat diagram, describe the lifecycle of BCP.	**10 Marks**	**L2**	**CO3**
	b.	Define DRP. Illustrate any four approaches of DRP.	**10 Marks**	**L3**	**CO3**

17.	**a.**	Explain the strategies used to provide security to cloud infrastructure at the network level and host level.	**10 Marks**	**L2**	**CO4**
	b.	Discuss cloud data security risks and its mitigation strategies.	**10 Marks**	**L2**	**CO4**
		Or			
18.	**a.**	Describe, how does managing user accounts and privileges contribute to host-level security?	**10 Marks**	**L2**	**CO4**
	b.	Illustrate, what best practices should be followed to ensure secure user and privilege management.	**10 Marks**	**L2**	**CO4**