



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.													
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Make Up Examinations – December 2025

Date: 26 – 12- 2025

Time: 1.00pm to 04.00pm

School: SOCSE	Program: B.Tech CSE	
Course Code: CSE2013	Course Name: Cloud Computing	
Semester: MK	Max Marks: 100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05
Marks	24	24	26	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.

10Q x 2M=20M

1.	How does utility computing relate to the pay-as-you-go model?	2 Marks	L1	C01
2.	Name the four primary stakeholders in cloud computing as defined by NIST.	2 Marks	L1	C01
3.	What is the difference between a Type 1 and Type 2 hypervisor?	2 Marks	L1	C02
4.	State any two ways virtualization reduces IT costs.	2 Marks	L1	C02
5.	What does an SLA typically define between a cloud provider and consumer?	2 Marks	L1	C03
6.	What is the role of a Resource Agent in Cloud Usage Monitor?	2 Marks	L1	C03
7.	When is automated scaling typically used in cloud applications?	2 Marks	L1	C03
8.	What cloud service is typically used for launching virtual machines in AWS?	2 Marks	L1	C04
9.	What is the role of Identity Providers (IdPs) in cloud environments?	2 Marks	L1	C04
10.	Name any two-encryption technique used to secure remote access.	2 Marks	L1	C04

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Explain the deployment models and their impact on the security, compliance, and flexibility of the cloud infrastructure.	10 Marks	L2	CO1
Or					
12.	a.	Compare IaaS, PaaS, and SaaS with respect to control, flexibility, and management responsibilities. Explain which service model would be ideal for small businesses and which for enterprise-level applications, justifying your reasoning.	10 Marks	L2	CO1
13.	a.	Explain the evolution of cloud computing. How did traditional computing models lead to cloud development?	10 Marks	L3	CO1
Or					
14.	a.	Describe major computing platforms and technologies that enabled cloud computing.	10 Marks	L3	CO1
15.	a.	Illustrate the taxonomy of virtualization in cloud computing. Discuss how each technique helps in achieving scalability and isolation.	10 Marks	L2	CO2
Or					
16.	a.	Describe the major types of virtualization techniques and compare them based on performance, isolation, and resource utilization.	10 Marks	L2	CO2
17.	a.	Differentiate between full virtualization, para-virtualization, and hardware-assisted virtualization..	10 Marks	L3	CO2
Or					
18.	a.	Describe the implementation levels of virtualization with examples.	10 Marks	L3	CO2
19.	a.	Describe the concept of a ready-made environment in cloud computing. Explain how it benefits developers and organizations in accelerating deployment and reducing setup complexities. Provide suitable examples.	10 Marks	L2	CO3
Or					
20.	a.	Explain how Automated Scaling Listeners support cost optimization and service continuity in multi-cloud deployments.	10 Marks	L2	CO3

		Provide detailed examples of its application in real-time cloud services.			
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21.	a.	Explain the concept of Logical Network Perimeter and its role in cloud security.	10 Marks	L3	C03
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Or

22.	a.	Define SLAs in the context of cloud computing. Why are SLAs important between providers and consumers?	10 Marks	L3	C03
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23.	a.	What is Privileged Access Management (PAM)? Explain the best practices for implementing PAM in cloud environments, including risk mitigation strategies.	10 Marks	L2	C04
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Or

24.	a.	Explain the Zero Trust Security Model in detail. How does it differ from traditional perimeter-based models, and what are its implications for cloud infrastructure security?	10 Marks	L2	C04
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25.	a.	Explain the role of Docker and Containers in cloud-based application development	10 Marks	L3	C04
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Or

26.	a.	Discuss the Cloud Haskell programming model. Apply it to demonstrate distributed computation in a cloud environment.	10 Marks	L3	C04
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