

Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII EXAMINATION – WINTER 2025

Subject Code:3170717

Date:20-11-2025

Subject Name:Cloud Computing

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) What is PaaS? and how does it differ from IaaS?	03
	(b) Differentiate public vs. private cloud.	04
	(c) What is Virtualization? Give any one application of virtualization.	07
Q.2	(a) List three basic components of cloud services.	03
	(b) Justify Virtualization gives new dimensions to cloud computing?	04
	(c) Enlist the services that are provided by Azure Cloud.	07
	OR	
	(c) Explain: Emerging market Cloud, Designing solutions for cloud.	07
Q.3	(a) List out various Challenges for Cloud Security	03
	(b) What is Eucalyptus? Explain in brief	04
	(c) Explain Hypervisors and its types – Type 1 and Type 2.	07
	OR	
Q.3	(a) What is Software as a Service (SaaS)? Give real world example.	03
	(b) Write a note on AWS Ecosystem.	04
	(c) What are the key benefits and risks of virtual machine migration?	07
Q.4	(a) What is load balancing in cloud computing?	03
	(b) Explain Autonomic Security Storage Area Networks	04
	(c) What is Amazon Glacier? How does it work? Differentiate Glacier and S3.	07
	OR	
Q.4	(a) What is CloudSim?	03
	(b) Define Inter Cloud Resource Management.	04
	(c) Explain the key characteristics and features of Google App Engine.	07
Q.5	(a) Explain Virtual Clusters.	03
	(b) Explain Architectural Design of Compute and Storage Clouds.	04
	(c) Explain how to perform Disaster Recovery in Clouds?	07
	OR	
Q.5	(a) Define Digital Signatures with use.	03
	(b) How does virtual machine migration impact cloud resource management?	04
	(c) Evaluate the challenges and benefits of integrating private and public cloud infrastructure. Provide examples to support your argument.	07
