

Enrollment No./Seat No.:

GUJARAT TECHNOLOGICAL UNIVERSITY
Bachelor of Engineering - SEMESTER - VI EXAMINATION - SUMMER 2025

Subject Code: 3164806

Date: 28-05-2025

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.**

	Marks
Q.1 (a) Define the term Cloud Computing. What are the advantages of Cloud Computing?	03
(b) Describe Challenges in Cloud Computing.	04
(c) Explain various layers of Cloud Computing.	07
Q.2 (a) Discuss services provided by SaaS.	03
(b) Briefly explain the features of IaaS.	04
(c) Compare the various cloud delivery models based on their characteristics.	07
OR	
(c) Compare the various cloud deployment models based on their characteristics.	07
Q.3 (a) Write a short note on Load Balancing.	03
(b) Differentiate between Type-1 and Type-2 Hypervisors.	04
(c) List and discuss various types of virtualization.	07
OR	
(a) What is the difference between Cloud Computing and Virtualization?	03
(b) Explain the concept of Virtual Machine Image.	04
(c) Write a short note on CPU Virtualization.	07
Q.4 (a) Compare hot and cold migration process.	03
(b) Write note on emerging cloud management standards.	04
(c) Enlist the services that are provided by Azure Cloud.	07
OR	
(a) What is single and multitenancy model?	03
(b) Write a short note on resource provisioning	04
(c) Describe Inter cloud resource management.	07
Q.5 (a) What are the basic Issues of Securing the Cloud?	03

- (b) Discuss Eucalyptus architecture. 04
- (c) Explain how to perform Disaster Recovery in Clouds? 07
- OR**
- (a) Describe the Identity Management lifecycle. 03
- (b) What is Google App Engine? Why is it used? 04
- (c) Explain the AppScale Cloud Platform with its applications. 07
