Enrolment No. /Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MASTER OF COMPUTER APPLICATIONS – SEMESTER III- EXAMINATION – SUMMER-2026

Subject Code: 639407 **Date: 07/05/2026**

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. **Use of simple calculators and non-programmable scientific calculators are permitted.**

Q.1	**(a)**	What is distributed computing? Compare the performance of Traditional Computing and Distributed Computing over given below parameters : **Scalability, Reliability, Flexibility, Complexity, Security, Performance.**		**07**
	(b)	i)	Explain cloud deployment models.	**03**
		ii)	What is SLA? Explain any three parameters of SLA	**04**
Q.2	**(a)**	Define computing. Explain various types of computing in detail.		**07**
	(b)	Write down the importance of Hybrid Cloud and Community Cloud. Give Example of the Hybrid Cloud.		**07**
		OR		
	(b)	What is Virtual Box? Explain the use case of the virtual box in context of cloud computing.		**07**
Q.3	**(a)**	Define Virtualization. Enlist and Explain all types of virtualization in brief.		**07**
	(b)	What is TCO? Which parameters are counted in TCO?		**07**
		OR		
Q.3	**(a)**	Explain the process of VM Migration. Explain VLAN and SAN.		**07**
	(b)	Enlist the risks associated in Cloud computing.		**07**
Q.4	**(a)**	What are serverless components in cloud computing? Discuss pros and cons of serverless computing		**07**
	(b)	How the objects are saved and deleted from the Google App Engine Data store?		**07**
		OR		
Q.4	**(a)**	Explain steps of Developing, Registering and Uploading an Application on Google App Engine.		**07**
	(b)	Explain Multi-tenant Environment with figure and example.		**07**
Q.5	**(a)**	Explain the Google AppEngine request handling architecture in detail with all components with diagram.		**07**
	(b)	What are request handlers in app engine?		**07**
		OR		
Q.5	**(a)**	Develop a web application which displays the current date and time and deploy it on the Google app engine.		**07**
	(b)	What is JPA? Explain transaction processing in JPA.		**07**

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