GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER III- EXAMINATION –SUMMER-2024

Subject Code: 639407 **Date: 21/05/2024**
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)**	Define Cloud Computing and describe the Cloud computing Architecture.	**07**
	(b)	Explain cloud computing service and deployment model.	**07**
Q.2	**(a)**	Discuss Computing paradigm evaluation and a new paradigm.	**07**
	(b)	What is Cluster Computing? Explain advantages and characteristics of Cluster Computing.	**07**
		OR	
	(b)	Explain management and administration of Cloud services.	**07**
Q.3	**(a)**	Write difference between Hyper-v, VMware, and Virtual box	**07**
	(b)	Write a detail note on Virtualization Technology in cloud computing with its types in Cloud Computing.	**07**
		OR	
Q.3	**(a)**	Explain SLA with cloud service provider in detail. Also discuss SLA aspects and requirements.	**07**
	(b)	What is Service Availability in terms of SLA? Explain cloud outages and Credit calculation for SLA Breaches.	**07**
Q.4	**(a)**	What are microservices? Why are microservices important for true cloud environment?	**07**
	(b)	Explain various risk associated in cloud computing.	**07**
		OR	
Q.4	**(a)**	What are security and compliance requirements in a public cloud?	**07**
	(b)	Write steps to deploy web application in the Google app engine.	**07**
Q.5	**(a)**	Explain in detail Service – Oriented Architecture (SOA).	**07**
	(b)	What are Task queues and cron jobs?	**07**
		OR	
Q.5	**(a)**	Explain steps of Developing, Registering and Uploading an Application on Google App Engine.	**07**
	(b)	Develop a web application which displays the current date and time in a formatted way.	**07**

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