

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2024****Subject Code:3170717****Date:22-05-2024****Subject Name:Cloud Computing****Time:02:30 PM TO 05:00 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.

		<b>MARKS</b>
<b>Q.1</b>	(a) Define the term cloud computing?	<b>03</b>
	(b) What do you understand by utility computing?	<b>04</b>
	(c) Explain the cloud computing stack?	<b>07</b>
<b>Q.2</b>	(a) Differentiate between scalability and elasticity?	<b>03</b>
	(b) What are the challenges and risks in implementing cloud?	<b>04</b>
	(c) Briefly explain the features of IaaS?	<b>07</b>
<b>OR</b>		
	(c) What are the features of cloud computing?	<b>07</b>
<b>Q.3</b>	(a) Describe dynamic resource allocation in cloud?	<b>03</b>
	(b) Illustrate the use of virtual machine template.	<b>04</b>
	(c) What are the various types of virtualizations?	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Explain VM Life cycle with suitable diagram?	<b>03</b>
	(b) What are hypervisors and their significance in VM management?	<b>04</b>
	(c) Describe the steps to migrate applications to cloud?	<b>07</b>
<b>Q.4</b>	(a) What is AWS autoscaling?	<b>03</b>
	(b) Compare hot and cold migration process.	<b>04</b>
	(c) Draw and explain the generic cloud reference architecture?	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) What is single and multitenancy model?	<b>03</b>
	(b) Write a short note on Amazon SQS.	<b>04</b>
	(c) How are VPN secure and dependable?	<b>07</b>
<b>Q.5</b>	(a) Why are SLAs important?	<b>03</b>
	(b) What are Digital Signatures?	<b>04</b>
	(c) Write a brief overview on Google Cloud Management.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Name few common threats and vulnerabilities in cloud?	<b>03</b>
	(b) Briefly explain the steps to implement identity management and access control mechanisms.	<b>04</b>
	(c) Write a brief overview of Amazon AWS array of services.	<b>07</b>

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