

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2023**

**Subject Code:3170717****Date:08-12-2023****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
<b>Q.1</b>	(a) Differentiate between Type-1 and Type-2 Hypervisors.	<b>03</b>
	(b) Differentiate between Single Tenant and Multi-Tenant Applications.	<b>04</b>
	(c) Explain the various Cloud Deployment Models in detail.	<b>07</b>
<b>Q.2</b>	(a) What is a Load Balancer? Explain why it is used?	<b>03</b>
	(b) List and explain various cloud characteristics in short.	<b>04</b>
	(c) Write a short note on CPU Virtualization.	<b>07</b>
<b>OR</b>		
	(c) Explain the phases involved in moving application to the cloud.	<b>07</b>
<b>Q.3</b>	(a) Write a short note on Network as a Service.	<b>03</b>
	(b) Compare XML and JSON.	<b>04</b>
	(c) Explain in detail: Collaboration as a Service.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Write a short note on Disaster Recovery as a Service.	<b>03</b>
	(b) List down the advantages of Inter Cloud or Cloud Brokering.	<b>04</b>
	(c) Explain Analytics as a Service.	<b>07</b>
<b>Q.4</b>	(a) Describe the Identity Management lifecycle.	<b>03</b>
	(b) Compare the models of encryption and key management in detail.	<b>04</b>
	(c) List the Cloud Security Risks and briefly explain them.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Write a short note on Identity Broker.	<b>03</b>
	(b) Compare the types of Identity Providers in detail.	<b>04</b>
	(c) Write a note on Vendor Lock-in with respect to Cloud Security Risk.	<b>07</b>
<b>Q.5</b>	(a) Write a short note on KVM.	<b>03</b>
	(b) Describe the various features of OpenStack.	<b>04</b>
	(c) Describe the architecture of Hyper-V.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Write a short note on Xen.	<b>03</b>
	(b) What is Google App Engine? Why is it used?	<b>04</b>
	(c) Describe the key characteristics and features of Google App Engine.	<b>07</b>

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