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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2022** 

Subj	ect (	Code:3170717 EXAMINATION - WINTER 20.	
•		Name: Cloud Computing	
Time:10:30 AM TO 01:00 PM Total Ma			arks:70
Instru			
		Attempt all questions.  Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	
			MARKS
<b>Q.1</b>	(a)	Explain the following terms:	03
		1) Hardware Virtualization 2) Multi-Tenant 3) Autonomic Computing	
	<b>(b)</b>		04
	( )	Allocation features in cloud computing?	0=
	(c)	Explain Grid computing and Utility computing.	07
Q.2	(a)	Justify the statement, "SaaS integration is hard".	03
	<b>(b)</b>		04
	(c)	Explain types of clouds based on deployment models with its relevant use case.	07
	(a)	OR Explain IaaS technology in cloud computing with a real-world	07
	(c)	example.	U7
Q.3	(a)	Explain in brief about application porting in cloud.	03
	<b>(b)</b>	Explain about virtualization in context of data center automation.	04
	(c)	Describe various types of hypervisor and mention pros and cons of each.	07
		OR	
<b>Q.3</b>	(a)		03
	<b>(b)</b>	± • • • • • • • • • • • • • • • • • • •	04
	(c)	<ul><li>Explain the following virtual machine migration services in detail.</li><li>i) Hot migration</li><li>ii) Cold migration</li></ul>	07
Q.4	(a)		03
	<b>(b)</b>		04
	(c)	Discuss about identity management and access control in cloud computing.	07
		OR	
Q.4	(a)	Enlist the design challenges of cloud infrastructure and resource management.	03
	<b>(b)</b>		04
	(c)	What is cloud resource management? Explain inter cloud resource management with its challenges.	07
Q.5	(a)	Explain service level agreement (SLA) in cloud computing with example.	03
	<b>(b)</b>	•	04

(c) Discuss Eucalyptus cloud middleware along with its architecture.

**07** 

## OR

Q.5	(a)	Explain in brief about the services provided by Microsoft Azure cloud.	03
	<b>(b)</b>	Write a short note on disaster recovery in cloud computing.	04
	<b>(c)</b>	Discuss Open Stack cloud middleware along with its architecture.	07

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