Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER III (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2730208 **Date:03/05/2016**

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**

Q.1	**(a)**	What are the features of infrastructure as service providers?	**07**
	(b)	1. Mention the differences between grid computing and cloud computing.	**03**
		2. What are the characteristics of cloud?	**04**
Q.2	**(a)**	Explain cloud deployment models in detail.	**07**
	(b)	What are the differences between SaaS and PaaS? Describe the main features of Platform as a Service.	**07**
		OR	
	(b)	What are the differences between IaaS and SaaS? Describe the main characteristics of Software as a Service.	**07**
Q.3	**(a)**	Define the terms emulation, paravirtualization, and full virtualization.	**03**
		Describe a set of services provided by VMware vSphere.	**04**
	(b)	Explain Identity as a Service (IDaaS) and Compliance as a Service (CaaS).	**07**
		OR	
Q.3	**(a)**	1. Mention any three VMware add-on products along with its functionality for cloud computing applications.	**03**
		2. Briefly explain machine imaging.	**04**
	(b)	Discuss types of virtual machines.	**07**
Q.4	**(a)**	Explain different resource provisioning methods used in cloud computing.	**07**
	(b)	What types of services are provided by cloud management software?	**07**
		OR	
Q.4	**(a)**	Explain Market-oriented cloud Architecture.	**07**
	(b)	Explain the procedure of building private cloud using Eucalyptus.	**07**
Q.5	**(a)**	What are cloud security services for software assurance?	**07**
	(b)	Explain virtual threats and hypervisor risks.	**07**
		OR	
Q.5	**(a)**	Explain different types of attacks against computers, networks, and cryptographic systems in cloud system	**07**
	(b)	Explain identity management and access control in cloud.	**07**

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