## **GUJARAT TECHNOLOGICAL UNIVERSITY** MCA – SEMESTER – IV EXAMINATIONS – SUMMER - 2017

Subject Code: 2640013Date:08/06/Subject Name: Cloud ComputingTotal MarlTime: 10.30 AM TO 01.00 PMTotal Marl				
Inst	ruction 1. 2. 3.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Define Cloud Computing? Explain the three milestones that have led to Cloud	07	
	(b)	Computing. Explain the brief characteristics of a distributed system.	07	
Q.2	<b>(a)</b>	Write short note on : (i )Models for Message Based Communication (ii) RPC	07	
	<b>(b)</b>	Define Service. Explain the four major characteristics of a Service.	07	
		OR		
	(b)	Explain the role of virtualization in cloud computing.	07	
Q.3	(a)	Explain the hardware virtualization techniques in detail.	07	
	( <b>b</b> )	List and explain the challenges in Cloud Computing faced by academia & Industry.	07	
Q.3	(a)	<b>OR</b> What are the possible legal issues arising within the context of Cloud Federation?	07	
	(b)	What is energy efficient computing? Why it is fundamental in cloud computing?	07	
Q.4	<b>(a)</b>	What is Bucket in Amazon Cloud? What type of storage does it provide?	07	
	<b>(b)</b>	Describe the core components of AppEngine.	07	
		OR		
Q.4	(a)	What are Dropbox and iCloud? What kind of problems do they solve by using cloud technologies?	07	
	<b>(b)</b>	Describe the major characteristics of the reservoir cloud.	07	
Q.5	(a) (b)	Explain the types of Timeouts in Activity tasks Explain the difference between conventional workflow and Amazon SWF workflow.	07 07	
05	(a)	<b>OR</b> Explain in detail the AWS Flow Framework for Java Replay Behavior.	07	
Q.5	(a) (b)	Explain the error handling mechanism in AWS.	07 07	

\*\*\*\*\*