Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER IV– • EXAMINATION – WINTER 2017

Subject Code: 2640013   **Date: 06-01-2018**
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.**

Q.1	**(a)**	Define Cloud Computing? Explain the characteristics of Cloud Computing.	**07**
	(b)	What do you mean by Virtualization? Explain the taxonomy of virtualization techniques.	**07**
Q.2	**(a)**	Explain the hardware architectures of Parallel Processing.	**07**
	(b)	What are the characteristics of the virtualized environment? Explain.	**07**
		OR	
	(b)	What does the acronym SaaS means? How does it relate to cloud computing?	**07**
Q.3	**(a)**	What are the most relevant technologies for distributed Object Programming?	**07**
	(b)	What are the fundamental advantages brought by cloud technology to scientific applications?	**07**
		OR	
Q.3	**(a)**	Explain the information management and storage services provided by Amazon Cloud.	**07**
	(b)	Explain the difference between Full Virtualization and Para Virtualization in detail.	**07**
Q.4	**(a)**	Describe High-level system architectural framework for green cloud computing.	**07**
	(b)	Explain the advantages of the service oriented Computing in detail.	**07**
		OR	
Q.4	**(a)**	Explain the role of Promise<T>, data convertor and marshaling while data exchange between Activities and Workflows.	**07**
	(b)	Write short note on the following (i) Amazon Machine Image (ii) Amazon CloudFront	**07**
Q.5	**(a)**	(i)What are workers and deciders in Amazon Simple Workflow Service? Define with Example.	**04**
		(ii)What is registration in SWF? Explain annotation Workflow Registration Options in detail.	**03**
	(b)	What are the most important advantages of cloud computing technologies for social networking applications.	**07**
		OR	
Q.5	**(a)**	(i)Explain the following annotations of SWF 1. @NoWait 2. @Execute 3. @Workflow	**03**
		(ii) Explain Amazon SWF Timeout Types?	**04**
	(b)	What is Cloud Federation? What are the motivations leading to the creation of a Federation?	**07**

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