## **GUJARAT TECHNOLOGICAL UNIVERSITY** MCA - SEMESTER-IV • EXAMINATION – WINTER • 2014

		MCA - SEMIESTER-IV • EXAMINATION – WINTER • 2014	
Subject Code: 2640013Date: 06-12-201Subject Name: Cloud ComputingDate: 06-12-201			
		.0:30 am - 01:00 pm Total Marks: 70	
Inst	tructio		
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1		Write Short note (any 7)	14
Q.1		(i) Amazon Elastic Block Store	14
		(i) AWS cloud Formation	
		(ii) RMI	
		(iv) SOA	
		(v) Emulation	
		(ix) Amazon SWF Timeout Types	
Q.2	<b>(a)</b>	Explain cloud computing Reference Model. What are the characteristics and	07
		benefits of cloud computing?	
	<b>(b)</b>	What do you mean by Virtualization? Explain the taxonomy of virtualization	07
		techniques.	
		OR	
	<b>(b)</b>	Describe how cloud computing technology can be applied to Business and	07
		Consumer Applications.	
Q.3	<b>(a)</b>	What is energy efficient computing? Explain the Green cloud-computing	07
		Reference Architecture. How DVFS help in Energy Efficient computing?	
	(b)	Explain the difference between conventional application workflow and Amazon	07
		SWF workflow?	
		OR	
Q.3	<b>(a)</b>	(i) Explain the role of Promise <t>, data convertor and marshaling while data</t>	04
		exchange between Activities and Workflows.	
		(ii) Explain Amazon SWF Timeout Types?	03
	<b>(b)</b>	Explain the architectural styles of distributed computing	07
0.4	$(\mathbf{a})$	(i) Explain the following annotations of SWF	02
Q.4	(a)	1. @NoWait	03
		2. @Execute	
		3. @Workflow	
			04
		(ii) Explain the difference between Full Virtualization, Para-virtualization and	04
		Hardware assisted Virtualization.	
	( <b>b</b> )	Evaluin the role of Activity worker, workflow worker and Workflow Starter	07
	<b>(b</b> )	Explain the role of Activity worker, workflow worker and Workflow Starter	07
		with example. <b>OR</b>	
0.4	(c)		07
Q.4	(a)	Explain Error Handling Mechanism in Amazon AWS Flow Framework.	07 07
	<b>(b</b> )	List and explain various barriers to cloud adoption.	07

Q.5	<b>(a)</b>	Write Short Note:	07
		(i) Java Reply Behavior for AWS Flow Framework.	
		(ii) Daemon Tasks.	
	<b>(b)</b>	Explain the role of predecessor and contributor technologies in the evolution of	07
		cloud computing.	
		OR	
Q.5	<b>(a)</b>	Explain worker Threading Model in Amazon AWS Flow Framework in detail.	07
	<b>(b)</b>	Explain the Hardware Architectures of cloud computing.	07
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