Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA SEM IV EXAMINATION WINTER 2015

Subject Code: 2640013 **Date:09/12/2015**

Subject Name: Cloud Computing

Time:10.30 a.m. To 01.00 p.m. **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)**	Explain the terms: Virtualization, SIMD Architecture, Service-oriented computing.	**06**
	(b)	What is cloud computing? What are its characteristics and benefits?	**04**
	(c)	Compare try catch of Java with Trycatch mechanism of AWS.	**04**
Q.2	**(a)**	Explain briefly five core technologies that played an important role in the realization of cloud computing.	**07**
	(b)	What is distributed System? What are the components that characterize it.?	**07**
		OR	
	(b)	What is parallel Processing? What are the approaches used for parallel programming? Describe the different levels of parallelism that can be obtained in a computing system.	**07**
Q.3	**(a)**	What is Xen? Discuss its elements for virtualization.	**07**
	(b)	What are the components of cloud reference model?	**07**
		OR	
Q.3	**(a)**	What are hypervisors? Explain Type I and Type II hypervisors.	**07**
	(b)	Write a note on types of cloud.	**07**
Q.4	**(a)**	Explain AWS flow framework architecture with diagram.	**07**
	(b)	Describe Amazon EC2 and its basic features.	**07**
		OR	
Q.4	**(a)**	Write a note on AWS Cloud formation. Briefly explain AWS Cloud formation functionality.	**07**
	(b)	Describe the core components of AppEngine.	**07**
Q.5	**(a)**	What are the types of applications that can benefit from cloud computing?	**07**
	(b)	Discuss the strategies that can be used to retry failed activities.	**07**
		OR	
Q.5	**(a)**	Explain System architectural styles.	**07**
	(b)	What do you mean by energy-efficient computing and why it is fundamental to cloud computing?	**07**

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