Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VII • EXAMINATION – SUMMER • 2014

Subject Code: 173202 **Date: 29-05-2014**

Subject Name: Advance Computing

Time: 02:30 pm - 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)**	Explain Cluster Classification in detail	**07**
	(b)	Define term workload in Cloud computing. Explain types of workload in Cloud.	**07**
Q.2	**(a)**	Explain pros and cons of cloud computing	**07**
	(b)	What is Distributed System? Explain the Advantage and disadvantages of distributed system.	**07**
		OR	
	(b)	What is meaning of memory latency? How memory latency can be improved by cache?	**07**
Q.3	**(a)**	Explain the application of grid computing.	**07**
	(b)	Discuss in detail the history of grid computing.	**07**
		OR	
Q.3	**(a)**	Explain I-Way project in detail.	**07**
	(b)	What is significance of Paas? Explain the role of Google's App engine platform in Paas.	**07**
Q.4	**(a)**	Define & Explain Public, Private and Hybrid Clouds.	**07**
	(b)	Explain Berkeley Now Cluster in detail.	**07**
		OR	
Q.4	**(a)**	Draw and Explain Layers of Grid Architecture in detail.	**07**
	(b)	Explain the Flexible Load Sharing algorithm in detail.	**07**
Q.5	**(a)**	Explain the Superscalar execution with suitable example.	**07**
	(b)	What is Cluster middleware? Explain design goal of middleware in Cluster computing	**07**
		OR	
Q.5	**(a)**	Explain Amazon EC2 Project with its contribution in Iaas.	**07**
	(b)	Explain the important parameters for the protection of that data	**07**

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