Date: 04/05/2015

Seat No.:		
	No.	

Subject Code: 170704

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VII • EXAMINATION - SUMMER • 2015** 

-		Name: Advance Computing Technology 30pm-05.00pm Total Marks: 70	
Instru	1. 2.	: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	6	07
	<b>(b)</b>	Which are the characteristics of a good resource sharing algorithm?	07
Q.2	(a)	•	07
	<b>(b)</b>	<b>5</b> 1	
		1. What are the benefits of using heterogeneous clusters?	03
		2. What is metacluster? How is metacluster made secure?  OR	04
	<b>(b)</b>		07
Q.3	(a)	Define Grid Computing. Discuss building blocks of Grid in detail.	07
	<b>(b)</b>	Which design features are required at the data and computational fabric of the Grid?	07
		OR	
Q.3	(a)	•	<b>07</b>
	<b>(b)</b>	Discuss any three scenarios that accelerate the emergence of Virtual Organizations. Also mention the similarities and differences between these scenarios.	07
Q.4	(a)	Explain Grid applications in detail.	07
	<b>(b)</b>	Explain layered Grid architecture using diagram.	07
		OR	
<b>Q.4</b>	(a)		<b>07</b>
	<b>(b)</b>	Mention all the features that are expected from each PaaS solution.	07
Q.5	(a)	Which common features of Cloud Computing can benefit organizations? Discuss	07
		each feature in detail.	
	<b>(b)</b>	Discuss private and public clouds along with similarities and differences.	07
0.5		OR	^ <b>-</b>
Q.5	(a)	Which are the characteristics that have to be in place for SaaS to be commercially viable?	07
	<b>(b)</b>	Discuss key areas related to security and privacy of data in cloud.	07

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