## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER- VII EXAMINATION - WINTER 2017** 

	•	Code: 170704 Date: 15-11-2017	7	
Subject Name: Advance Computing Technology Time: 10:30 am to 01:00 pm Instructions:  Total Marks: 7			70	
	2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a)	What is cluster computing? Explain cluster computing architecture using suitable diagram.	07	
	<b>(b)</b>	List out features of cluster computing. Explain cluster classification categories based on different factors.	07	
Q.2	(a) (b)	What is RMS? Explain services provided by RMS environment.  Explain key services of SSI (single system image) and availability infrastructure.	07 07	
	<b>(b)</b>	OR Explain cluster system monitoring in brief.	07	
Q.3	(a)	Give some history of beginning of grid and explain community grid model.	07	
Q.S	(a) (b)	What are the various grid applications? Explain engineering oriented and data oriented applications in detail.	07	
0.1	(.)	OR	07	
Q.3	(a)	What do you understand by cross site trust management? Explain with examples.	07	
	<b>(b)</b>	Explain open grid services architecture (OGSA) and its parts.	07	
Q.4	(a) (b)	Explain service oriented model of third generation of grid in brief.  What are the steps that must be taken before migrating application into cloud?  OR	07 07	
Q.4	(a)	What is virtual organization? How virtual organization is used in grid for	07	
	<b>(b)</b>	collaboration? What is cloud computing? Explain various features of cloud computing in detail.	07	
Q.5	(a) (b)	What are the cloud service models? Explain each of them in brief.  Compare traditional and cloud data center in brief.	07 07	
Q.5	(a) (b)	OR Explain Amazon EC2 project in detail. What is SaaS? Explain using suitable example.	07 07	

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