Seat No.: Enrolm	nent
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - SUMMER • 2015

Subje	ect C	ode: 170704 Date: 04/05/2015	
Subj	ect N	ame: Advance Computing Technology	
Time	:02.3	60pm-05.00pm Total Marks: 70	
Instru			
	2. N	Attempt all questions. Aake suitable assumptions wherever necessary. Sigures to the right indicate full marks.	
Q.1	(a)	Discuss cluster categorization in detail.	07
	(b)	Which are the characteristics of a good resource sharing algorithm?	07
Q.2	(a)	Discuss the components used to build clusters.	07
	(b)	Answer the following questions.	
		1. What are the benefits of using heterogeneous clusters?	03
		2. What is metacluster? How is metacluster made secure? OR	04
	(b)	Which are the services provided by resource management and scheduling?	07
Q.3	(a)	Define Grid Computing. Discuss building blocks of Grid in detail.	07
	(b)	Which design features are required at the data and computational fabric of the Grid?	07
		OR	
Q.3	(a)	Explain the certification authority model of Grid.	07
	(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)	Explain layered Grid architecture using diagram.	07
		OR	
Q.4	(a)	Discuss Amazon EC2 in detail.	07
	(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
	(L.)	each feature in detail.	07
	(b)	Discuss private and public clouds along with similarities and differences.	07
0.5	(a)	OR Which are the characteristics that have to be in place for SecS to be commercially	07
Q.5	(a)	Which are the characteristics that have to be in place for SaaS to be commercially viable?	
	(b)	Discuss key areas related to security and privacy of data in cloud.	07
