GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER -VII • EXAMINATION - SUMMER 2014

Subject Code: 170704 Date: 29-05-2			014	
Tiı	ne: (truction 1.	Attempt all questions. Make suitable assumptions wherever necessary.	70	
	3.	Figures to the right indicate full marks.		
Q.1	(a)	What is cluster computing? Explain different scalable computer architecture in detail.	07	
	(b)	Explain cluster classification in detail.	07	
Q.2	(a)	What is Resource Management Scheduling (RMS) in cluster computing?	07	
	(b)	Explain the services provided by it. Explain High performance virtual machine (HPVM) project and Beowulf project in cluster computing?	07	
	(b)	OR What is cluster tuning? Explain the policies used for cluster tuning.	07	
O 2	(b)		07	
Q.3	(a)	Define Grid Computing? What are components of Grid? Explain the applications of Grid Computing. What is Virtual arganization? Explain different protocol services and tools to	07	
	(b)	What is Virtual organization? Explain different protocol, services, and tools to build scalable Virtual organization?	07	
Q.3	(a)	OR Explain Grid architecture in detail.	07	
Ų.J	(a) (b)	Why there is need of Grid Computing? Explain Web Resource Framework in detail in Grid Computing.	07	
Q.4	(a)	Define Cloud Computing? Explain the features of Cloud Computing.	07	
	(b)	Explain benefit and limitations of Cloud Computing. OR	07	
Q.4	(a)	Explain Private Cloud, Public Cloud and Hybrid Cloud in detail.	07	
	(b)	Explain Infrastructure as a Service(IaaS), Platform as a Service(PaaS) and Software as a Service(SaaS) in Cloud Computing.	07	
Q.5	(a)	Explain the Cloud Components in detail.	07	
	(b)	Explain the situation when we can use Cloud Computing and when we can not use Cloud Computing.	07	
0.5	(c)	OR	07	
Q.5	(a)	Mention the characteristics of Workload and Explain the different types of Workload.	07	
	(b)	List different types of data stored in Cloud. Compare traditional IT Service Provider and Cloud Service Provider.	07	
