Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-III EXAMINATION - WINTER 2015

Subject Code: 3735102 Subject Name: Data Center Management Time:02:30 PM to 05:00 Instructions:			Date: 07/12/2015		
				Total Marks: 70	
	1. 2. 3.	Make su	all questions. itable assumptions wherever necessary. to the right indicate full marks.		
Q.1	(a) (b)	Describe (i) (ii)	the three phases of Capacity Planning for Servers Explain What-If Analysis. Explain how to calculate required physical area of data center?	for the equipment's	07 07 04 03
Q.2	(a)	1,000-ser Servers, of solution of	Dresses has engaged a data-center consultant to arc ver data center that must have no downtime for net or any facility services (such as power and air c can be given for this?	work devices, onditioning). What	07
	(b)	Explain –	how to implement a Network with Load-Balancing OR	g Switches.	07
	(b)	Explain th	ne working of lightweight directory access protocol		07
Q.3	(a)	(i) (ii)	What are the power supply requirements of data of Why it is best practice to conduct base lining and		07 04 03
	(b)	Write the	features those are important for design of an outsta \mathbf{OR}	nding data center.	07
Q.3	(a) (b)	(i) (ii) Write the	What care needs to be taken to plan a data center Define physical capacity with respect to data correquirements are measured? guidelines for automation.	_	07 04 03 07
Q.4	(a) (b)	Briefly describe the types of load balancing. What are the advantages of storage consolidation? OR			07 07
Q.4	(a)(b)	When heterogeneous networks are encountered, which approaches can be taken to combine the network topologies and processes? Which sequences in the document need to be followed so that it makes good proposal?			07 07
Q.5	(a) (b)		ata center—wide features that must be monitored. The WAN link is composed of two aspects: "trans Explain. The processing speed of a CPU depends on which the common types of memory caching?		07 07 04
			OR		
Q.5	(a) (b)	What are (i) (ii)	the key reasons for data center consolidation? What are the significant differences in security n (CoLo) data centers and managed-hosting data ce Explain the term Impersonation.		07 07 04 03
