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GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – WINTER • 2014

Subject code: 3715102 Date: 07-01-2015 Subject Name: Advanced Operating System and Management Time: 02:30 pm - 05:00 pm Total Marks: 70 Instructions:				
	1. 2. 3.			
Q.1	(a) (b)	Explain the Design issues of Distributed Operating System What is Termination Detection in Distributed Systems? Write algorithm for identifying Termination of Distributed Operating System	07 07	
Q.2	(a) (b)	Explain the General System Model for Distributed Mutual Exclusion Write Lamports Algorithm for Distributed Mutual Exclusion OR	07 07	
	(b)	Explain Raymonds Algorithm with an example for Distributed Mutual Exclusion	07	
Q.3	(a) (b)	What are the different strategies of Distributed Deadlock handling? Explain the working Hierarchy Deadlock Detection with a diagram OR	07 07	
Q.3	(a)	Write Ho-Rammoorthys 2-Phase Centralized algorithm for Distributed Deadlock	07	
	(b)	Explain the working of Diffusion Computation Distributed algorithm for Deadlock	07	
Q.4	(a) (b)	Classify Load Distributing algorithms Explain the Components of a Load Distributing Algorithm OR	07 07	
Q.4	(a)	Explain the working of Receiver-Initiated Algorithm of Distributed Scheduling with a neat diagram	07	
	(b)	What are the requirements for Load Distributing?	07	
Q.5	(a) (b)	Explain any 4 ways of Performance Tuning of Operating System Write a program that demonstrates Ricart-Agrawala& Algorithm for DME	07 07	
Q.5	(a) (b)	OR What are the design principles of Security? Explain how Unix provides Security	07 07	
