GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER–VIII • Remedial EXAMINATION – WINTER 2013

		Code: 180701 Date: 18/09/2013	
	: 03	Name: Distributed Systems 5:00 pm – 05:30 pm Total Marks: 70	
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1		 Differentiate monolithic kernel model and micro kernel model (4) Explain virtual uniprocessor. (2) Compare processor pool model and workstation server model (4) What is non idempotent routine? How such routine creates problem with message passing? Also explain its solution with example. (4) 	14
Q.2	(a)		07
	(b)	Explain VMTP protocol used for distributed system. Differentiate LAN and WAN. Also compare Bridge, Router and gateway.	07
	(b)	OR What is failure in IPC? How can we handle them?	07
	(0)	what is failure in file. How can we handle them?	07
Q.3	(a)	List various issues in message passing system. Explain any one.	07
C	(b)	List various consistency models used in DSM? Explain any one.	07
Q.3	(a) (b)		07 07
Q.4	(a) (b)	What are the various issues while designing load balancing algorithm? Explain any one in detail.	07 07
Q.4	(a)	OR What is process migration? List the steps for it. What is the advantage of	07
	(b)	process migration?	07
	(b)	exclusion.	07
Q.5		 Write a note on following (any 4) (1) Name Space (2) Name resolution (3) Name Server (4) Context binding (5) Provident and converge cast on spanning tree 	14
		(5) Broadcast and converge cast on spanning tree.	

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