Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

•		M. E SEMESTER – II • EXAMINATION – WINTER 2012 ode: 1720201 Date: 29-12-2012	
Time	: 10.	Jame: Distributed Operating System 30 am – 01.00 pm Total Marks: 70	
Instr	1. 2. 1	ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Explain loosely coupled and tightly coupled system in terms of both memory and processor. (with diagram)	07
	(b)	Why do most RPC systems support call-by-value semantics for parameter passing? Justify your answer.	07
Q.2	(a)	Which are the different techniques to avoid Dead Lock in DOS?	07
	(b)	Explain Election Algorithms for Synchronization in Distributed System.	07
	(b)	OR Explain Logical Clocks and Physical Clocks.	07
Q.3	(a)	Explain applications related to Light weighted RPC.	07
	(b)	Explain The Workstation Model.	07
Q.3	(a) (b)	OR Explain Light weight RPC? Is it possible to implement light weight RPC in railway reservation system? Justify your answer. Explain The Processor Pool Model.	07 07
Q.4	(a)	Explain Naming Transparency in Distributed File System.	07
	(b)	Explain The Amoeba System Architecture.	07
		OR	
Q.4	(a)	Explain Caching in Distributed File System.	07
	(b)	Explain The Mach Microkernel.	07
Q.5	(a)	Explain Granularity in Distributed Shared Memory.	07
	(b)	Explain OSI Model in brief.	07
		OB	

(a) Explaining Thrashing in Distributed Shared Memory.

(b) Explain SUN RPC.

Q.5

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