Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER-1 (NEW) EXAMINATION – WINTER 2016

	Subj	ect Code: 2710213 Date:06/01/2017	
	_	ect Name: Distributed Operating System e: 2:30 pm to 5:00 pm Total Marks: 70	
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		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) (b)		07 07
Q.2	(a) (b)	What are the issues that are needed to be considered while designing IPC protocol? Justify your answer with reference to IPC Message Format. Explain IPC Synchronization.	07 07
	(D)	OR	U/
	(b)	Message passing V/S Distributed Shared Memory.	07
Q.3	(a)	Compare Processor Consistency Model and PRAM Consistency Model for Distributed Shared memory.	07
	(b)	A server is to be shared by multiple clients. Describe a scheme for designing the remote procedures offered by server so that interleaved or concurrent requests from the different clients do not interfere with each other. OR	07
Q.3	(a)	What is the role of "binding agent" in client server binding? Explain types of binding.	07
	(b)	What is granularity in Distributed Shared Memory? Enlist and explain DSM Structure.	07
Q.4	(a) (b)	Explain 4-message IPC Protocol. How to handle faults in 2 – message IPC protocol? Compare casual and weak consistency model for Distributed Shared Memory. OR	07 07
Q.4	(a)	What will happen in a bully algorithm for electing a coordinator when two or more process almost simultaneously discover that the coordinator has crashed? Suggest some suitable mechanism.	07
	(b)	Explain Clock Synchronization Algorithm.	07
Q.5	(a)	How reporting of best node to source node is carried out in election algorithm for wireless Network?	07
	(b)	Explain SNTP with suitable example.	07
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Q.5	(a) (b)	What is Active Time Server? How is it implemented in Berkeley UNIX System? Explain Process Migration Mechanism.	07 07
