;	Seat N	Io.: Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER I (NEW) – • EXAMINATION – SUMMER 2016	
:	Subie	ect Code: 2710213 Date:19/05/2016	
	U	ect Name: Distributed Operating System	
	-	:02:30 pm to 05:00 pm Total Marks: 70	
	Instru	<u>-</u>	
		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) (b)	Explain types of transparency in DOS. Message passing V/S Distributed Shared Memory.	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. Compare Processor Consistency Model and PRAM Consistency Model for Distributed	07 07
	(D)	Shared memory.	U/
		OR	
	(b)	Explain RPC compilation and execution Process.	07
Q.3	(a)	Explain IPC Synchronization.	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.	07
0.2	(-)	OR What is the role of "hinding a cont" in client gamen hinding? Explain types of hinding	07
Q.3	(a) (b)	What is the role of "binding agent" in client server binding? Explain types of binding. Compare casual and weak consistency model for Distributed Shared Memory.	07 07
Q.4	(a)	Explain 4-message IPC Protocol. How to handle faults in 2 – message IPC protocol?	07
	(b)	What is granularity in Distributed Shared Memory? Enlist and explain DSM Structure. OR	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	07

How reporting of best node to source node is carried out in election algorithm for

What is Active Time Server? How is it implemented in Berkeley UNIX System?

OR

suitable mechanism.

wireless Network?

Explain Process Migration Mechanism.

Explain SNTP with suitable example.

Explain Clock Synchronization Algorithm.

(b)

(a)

(b)

(a)

Q.5

Q.5

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