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## GUJARAT TECHNOLOGICAL UNIVERSITY MCA- SEMESTER -IV EXAMINATION -SUMMER-2019

Su	bject	t Code: 2640006 Date: 28-05-2019	9
Su	bject	t Name: Distributed Computing (DC1)	
Ti	me:1	0.30 am to 1.00 pm Total Marks: 7	0
Ins	tructi		
		. Attempt all questions.	
	2. 3.	· · · · · · · · · · · · · · · · · · ·	
Q.1	(a)	Attempt the following	07
<b>V</b>	(44)	1) What is Distributed Computing?	
		2) What is IPC?	
		3) What is Asynchronous send and Asynchronous Receive?	
		4) What is indefinite blocking?	
		5) What is Data Marshalling?	
		<ul><li>6) Differentiate HTML with XML.</li><li>7) What do you mean by Paradigm?</li></ul>	
	<b>(b)</b>	1) Explain in detail Stream Mode Socket API?	07
	(2)	2) Explain Unreliable multicasting, Atomic Order Multicasting.	0.
Q.2	(a)	Draw the diagram that depicts level of abstraction for Distributed Application	07
	( <b>L</b> .)	Paradigm.	07
	<b>(b)</b>	Define Local Object and Distributed Object. Draw and explain Java RMI architecture. Show stub-skeleton interactions using interaction diagram.	07
	<b>(b)</b>	OR Write an algorithm for developing server-side and client-side software of RMI	07
	(D)	application.	U/
Q.3 (a	(a)	Explain event synchronization. Discuss event synchronization in the	07
	<b>4</b> \	Synchronous Send and Asynchronous Receive modes of IPC.	
	<b>(b)</b>	Write and explain connection-oriented Echo Server client-server program.	07
Q.3	(a)	<b>OR</b> Write a java code to implement Simple Day Time Server program using Stream	07
Q.J	(a)	Socket API.	07
	<b>(b)</b>	Draw and explain Java RMI architecture.	07
Q.4	(a)	Explain SOAP. Compare SOAP WebServices and RESTful WebServices.	07
	<b>(b)</b>	Differentiate the Following	07
		i. Connection-less IPC Vs Connection Oriented IPC	
		ii. Stateful Server Vs Stateless Server	
0.4	(a)	OR Describe key methods of Datagram Socket API. Write code snippet for	07
	(a)	explaining datagram socket.	U /
	<b>(b)</b>	What is WSDL? Explain role of WSDL in SOA integration.	07
Q.5	$(\mathbf{a})$	With Diagram and code fragment, explain connectionless datagram socket.	07
	<b>(b)</b>	What is XPath? Explain Navigating XML Trees with XPath.	07
0.5		OR	
	(a)		
	<b>(b)</b>		07
Q.5		What is XPath? Explain Navigating XML Trees with XPath.	
	<b>(b)</b>	Differentiate between Iterative Server Vs Concurrent Server.	07