Seat No.:		Enrolment No.	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY		
		SEMESTER- 4 EXAMINATION – WINTER 2012		
U			1/01/2013	
Subject Name: Distributed Computing (DC1) Time of 10:20 12:00 Tatal Markov			70	
Time: 10:30 – 13:00 Total Marks: Instructions:			: 70	
msu		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
		Figures to the right indicate full marks.		
Q.1	(a)	Discuss the RPC & Peer-to-Peer distributed computing paradigms.	07	
Q.1	(b)	1. Discuss the reasons for popularity of distributed computing.	04	
	\ /	2. What is URL? Explain its general form.	03	
0.1	(-)	Emplois and an about the Describe and an about the first the	07	
Q.2	(a)	Explain event synchronization. Describe event synchronization for the following IPC modes:	07	
		Asynchronous Send and Synchronous Receive		
		2. Synchronous Send and Synchronous Receive		
	(b)	Discuss the Client-Server & Mobile-agent distributed computing paradigms.	07	
		OR	0=	
	(b)	Why are the data representation standards required? Discuss the XDR, ASN and XML data representation standards.	07	
		and MVID data representation standards.		
Q.3	(a)	Discuss the main Java API-classes involved in socket communication using	07	
		UDP protocol.	~-	
	(b)	Explain Unreliable multicasting, Atomic Order Multicasting and Causal-Order Multicasting.	07	
		OR		
Q.3	(a)	Describe the Java Multicast API classes.	07	
	(b)	Write a Java program to implement a threaded EchoServer using TCP.	07	
Q.4	(a)	Explain the following Java RMI terms:	07	
Q.4	(a)	Remote, stub, skeleton, rmiregistry	07	
	(b)	Discuss any one technique which is used to transfer the client-side session-	07	
		state data with suitable example and figures.		
0.4	(-)	OR	07	
Q.4 Q.4	(a) (b)	With suitable example discuss the implementation of Java RMI on server. Explain the CORBA terms: Object adapter, POA, Naming service.	07 07	
V. 4	(0)	Explain the CONDA terms. Object adapter, I OA, Ivalining service.	U/	
Q.5	(a)	Explain the following CORBA terms:	07	
		ORB, IDL, IOR, orbd		

(b) Explain SOAP. Compare SOAP webservices and RESTful webservices.

Q.5

(a) Write a short note on REST.

(b) What is the purpose of Inter-ORB protocols? Explain the GIOP and IIOP 07 protocols. List the IIOP specification.

OR

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