Seat No.: E	nrolment No.

Subject Code: 640006

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

MCA - SEMESTER-VI • EXAMINATION – WINTER 2013

Date: 13-12-2013

_		me: Distributed Computing (DC1)	_
		0 am - 01.00 pm Total Marks: 70	0
Instruc	1. A 2. M	ttempt all questions.  Take suitable assumptions wherever necessary.  Egures to the right indicate full marks.	
Q.1	(a) (b)		07 07
Q.2	(a) (b)	Discuss the Client-Server & Mobile-agent distributed computing paradigms.	07 07
	<b>(b</b> )	OR  Why are the data representation standards required? Discuss the XDR, ASN and XML data representation standards.	07
Q.3	(a)	Discuss the main Java API-classes involved in socket communication using UDP protocol.	07
	<b>(b</b> )		07
Q.3	(a)	Write and explain a simple DayTime server program using Stream socket API.	07
	<b>(b</b> )	Explain reliable multicasting. Discuss any 3 classifications of reliable multicast systems.	07
Q.4	(a)	Describe the Java Multicast API classes.	07
	<b>(b</b> )	Explain with complete example program: How to:  1) join to a multicast group?	07
		<ul> <li>2) send a DatagramPacket to a multicast group?</li> <li>3) receive a DatagramPacket from a multicast group?</li> <li>OR</li> </ul>	
Q.4	(a)	What is RMI? Draw and explain Java RMI architecture. Show stub skeleton interactions using interaction diagram.	07
Q.4	<b>(b</b> )	Explain the following Java RMI terms: Remote, stub, skeleton, rmiregistry	07
Q.5	(a)	state data. Draw appropriate event/interaction diagram.	07
	<b>(b</b> )	OR	07
Q.5	(a) (b)		07 07

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