Seat No.:	Enrolment No.
Scat No	Emonitation.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER IV • EXAMINATION – SUMMER 2016

•		Code: 640006 Date:04-06-20	16
Гime		Name: Distributed Computing 30a.m. To 01.00p.m. Total Marks:	: 7 0
	2. I	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Differentiate between Monolithic Computing, Parallel Computing and Distributed Computing.	07
	(b)	Explain different scenarios related to event synchronization for Synchronous Send and Asynchronous Receive with appropriate diagrams	07
Q.2	(a)	Write code in Java for implementing a UDP based connectionless echo client server application.	07
	(b)	Write code in Java for implementing a TCP based echo client server application. OR	07
	(b)	Write code in Java for implementing a TCP based daytime client server application.	07
Q.3	(a) (b)	Explain different operations for an archetypal Multi-Cast API. Explain: Peer to Peer, Client Server and Mobile Agent IPC Paradigms. OR	07 07
Q.3	(a)	Explain classification of Multi-casting Mechanisms based on various criteria.	07
	(b)	Briefly Explain the following terms:: i) Iterative Server ii) Concurrent Server iii) Stateful Server iv) Stateless Server v) Multi-Threaded Server vi) Active Open vii) Passive Open	07
Q.4	(a) (b)	Explain the steps for building an RMI Application. Draw and explain basic CORBA architecture OR	07 07
Q.4	(a)	What is RMI? Draw and explain Java RMI architecture. Show stubskeleton interactions using interaction diagram.	07
Q.4	(b)	Explain how cookies can be used for transferring session state data. Draw appropriate event/interaction diagram.	07
Q.5	(a) (b)	Write a short note on REST. What is WSDL? Explain the role of WSDL in SOA integration with appropriate figure.	07 07
Q.5	(a) (b)	Explain SOAP. Compare SOAP webservices and RESTful webservices. With diagram explain Web Service infrastructure and stepwise communication.	07 07
