Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-IV • EXAMINATION – WINTER • 2014

Sul Tir	bject ne: 1 ructio	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Explain various form of computing. Explain steps for building an RMI application.	07 07
Q.2	(a) (b)	Discuss the strength and weaknesses of Distributed Computing. List various paradigms for distributed applications and explain any one. OR	07 07
	(b)	Write a note on data representation and data encoding.	07
Q.3	(a) (b)	Explain iterative server, concurrent server, and stateful server. Write a program which sends a message and receives a message using connectionless datagram socket.	07 07
Q.3	(a) (b)	OR Explain reliable multicasting. Discuss any 3 classifications of reliable multicast systems. Write a program which uses a multicast socket to sends a single message to a multicast group and joins a multicast group and receives a single message send to the group.	07 07
Q.4	(a) (b)	Write a short note on REST. Explain iterative server, concurrent server, and stateful server. OR	07 07
Q.4	(a) (b)	Explain the following Java RMI terms: Remote, stub, skeleton, rmiregistry Write a short note on the following. (i) Concurrent Programming. (ii) The internet network architecture.	07 07
Q.5	(a)(b)	Explain how hidden form-fields can be used for transferring session state data. Draw appropriate event/interaction diagram. Explain the Naming Service and basic architecture of CORBA. OR	07 07
Q.5	(a) (b)	What is RMI? Draw and explain Java RMI architecture. Show stub skeleton interactions using interaction diagram. Explain the role of WSDL in SOA.	07 07
