Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

M. E. - SEMESTER – II • EXAMINATION – WINTER • 2013

Subject code: 1720102 Date: 27-12-2013 Subject Name: Distributed Computing & Application			
Time		0 am - 01.00 pm Total Marks: 70	0
	1. Att 2. Ma	tempt all questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.	
Q.1	(a)	What is IPC? Explain basic IPC calls. What is the role of IPC in	07
	<b>(b)</b>	Distributed Computing? Illustrate with proper example how RMI differ from RPC., Is RPC and RMI action oriented or data oriented? How?	07
Q.2	(a)	Draw and explain the J2EE architecture. What are its major components and services?	07
	<b>(b)</b>	Discuss different paradigms for Distributed Applications. <b>OR</b>	07
	<b>(b)</b>	Explain ORB and Naming system with respect to CORBA.	07
Q.3	(a) (b)	For client server architecture, explain the Three Tire Architecture. Explain functionalities of each layer.	07 07
Q.3	(a)	With proper example, explain PreparedStatement with Statement object.	07
	<b>(b)</b>	Explain with proper example, reading of metadata in JDBC.	07
Q.4	(a) (b)	What is web.xml file? Explain its role with sample web.xml file. Write a Servlet and other related files to count number of characters in a given input string.  OR	07 07
Q.4	(a)	Explain MVC Architecture.	07
Q.4		Explain the need of session handling with suitable example.	07
Q.5	(a)	How Distributed Computing differs from Parallel Computing? What is MPI and what is its role?	07
	<b>(b)</b>	What are the main strengths and weaknesses of CORBA with comparison to Java RMI?	07
Q.5	(a)	<b>OR</b> What is DTD? Explain with suitable example how to refer DTD file in XML file.	07
	<b>(b)</b>	How can we use JMS to develop Publish Subscribe model?	07
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