Se	eat No	.: Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. E SEMESTER - I • EXAMINATION - WINTER • 2014	
		et code: 712305 Date: 08-12-2014	
S	ubjec	ct Name: Distributed Computing	
		10:30 am - 01:00 pm Total Marks: 70	
In		tions:	
	2	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full mark. 	
Q.1	(a) (b)	 Define Computing and Distributed computing. Give advantages and disadvantages of distributed computing. Applications of distributed computing Explain Remote Procedure Call with example. 	07
Q.2	(a)	What is socket? Explain types of socket.	
	(b)	Compare object persistence and object serialization. OR	07 07
	(b)	Explain ORB protocol.	07
Q.3	(a)	Explain architecture of remote method invocation and Give its example.	07
	(b)	Explain functional partitioning in context of parallel computing. OR	07
Q.3	(a)	Explain message oriented middleware.	07
	(b)	Explain Parallel virtual machine.	07
Q.4	(a)	In the context of Internet (Web) database, state the differences between XML Schema and XML DTD. Create XML DTD and XML Schema for relational database given below. Student (name,eno, bdate, address, gender, branch_name) Branch(brname, brno, hod)	07
	(b)	Explain SOAP	07
Q.4	(a)	OR How many ways to store VMI data in late 1 and	
7.7	(b)	How many ways to store XML data in database? What are the advantages and disadvantages of each approach? Explain the concept of Web service with example.	07
2.5			07
Q.5	(a) (b)	Explain architecture of cluster computing.	07
	(0)	 Explain advantages and disadvantages of cluster computing. Explain application of cluster computing OR	07
2.5	(a)	What is grid computing? Discuss the evolution of grid computing	07
	(b)	Compare cluster and grid computing.	07
