

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – I • EXAMINATION – WINTER 2012****Subject code: 712305N****Date: 16-01-2013****Subject Name: Distributed Computing****Time: 02.30 pm – 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** What is Distributed System? List the advantages of Distributed System over Centralized System. **07**
- (b)** Discuss the various design issues of Distributed systems **07**
- Q.2 (a)** Explain the design of Busbased multicomputer **07**
- (b)** Write a short note on Multithreading **07**
- OR**
- (b)** Explain true distributed system in detail **07**
- Q.3 (a)** Explain the concepts of Network operating system in detail. **07**
- (b)** Explain object management Architecture for Distributed Environment. **07**
- OR**
- Q.3 (a)** What is RMI? Explain feature of RMI in distributed Environment. **07**
- (b)** List the kinds of Transparency in Distributed system **07**
- Q.4 (a)** Explain IPC in detail. **07**
- (b)** Explain and compare J2EE and .Net Distributed application. **07**
- OR**
- Q.4 (a)** Write a short note on XML with its advantages. **07**
- Q.4 (b)** Create .dtd file for library book information and also create well formed XML document to store this information against .dtd. **07**
- Q.5 (a)** Explain following webservice protocol with example **07**
(1) SOAP (2) WSDL
- (b)** Explain steps of calling webservice. **07**
- OR**
- Q.5 (a)** Explain web service protocol stack. **07**
- (b)** Explain Grid computing **07**
