

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E –IIst SEMESTER–EXAMINATION – JULY- 2012

Subject code: 1720102

Date: 09/07/2012

Subject Name: Distributed Computing & Application

Time: 10:30 am – 13:00 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)** List and Explain Design Issues of DC **07**
(b) Using example explain object brokers **07**
- Q.2 (a)** Discuss different paradigms for DCA. **07**
(b) Write connection less Echo server using socket **07**
- OR**
- (b)** Write mathematical function client using socket **07**
- Q.3 (a)** Write a Java code fragment to implement state full server. **07**
(b) Compare and contrast CORBA and Java RMI. **07**
- OR**
- Q.3 (a)** Write a Java code fragment to implement RMI. **07**
(b) Explain Model View Controller Architecture. **07**
- Q.4 (a)** Using example Illustrates important characteristics of WSDL **07**
(b) Write skeleton for your choice application using MPI library. **07**
- OR**
- Q.4 (a)** Using example Illustrates important characteristics of SOAP **07**
Q.4 (b) Write skeleton for your choice application using PVM library. **07**
- Q.5 (a)** Discuss about Globus **07**
(b) Explain difference between Web and Grid **07**
- OR**
- Q.5 (a)** List and explain main features required for the data and computational fabric of the Grid. **07**
(b) Explain characteristics of cluster computing. **07**
