GUJARAT TECHNOLOGICAL UNIVERSITY

| M.E –II st SEMESTER–EXAMINATION – JULY- 2012 | | | |
|---|------------|---|-------|
| Subject code: 1720102 Date: 09/07/2 | | | 2012 |
| Subject Name: Distributed Computing & Application | | | |
| Time: 10:30 am – 13:00 pm Total Marks: | | | s: 70 |
| Instructions: | | | |
| 1. Attempt all questions. | | | |
| 2. Make suitable assumptions wherever necessary. | | | |
| | 3. F | igures 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 | 07 |
| | | of the Grid. | |
| | (b) | Explain characteristics of cluster computing. | 07 |
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