

**Code No: C8203, C7803**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech I - Semester Examinations, March/April 2011**

**DISTRIBUTED COMPUTING**

**(COMMON TO COMPUTER NETWORKS, COMPUTER NETWORKS AND  
INFORMATION SECURITY)**

**Time: 3hours**

**Max. Marks: 60**

**Answer any five questions  
All questions carry equal marks**

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- 1.a) Define distributed computing. Explain different forms of computing.
- b) Explain the differences between connection oriented and connectionless Inter Process Communication (IPC). [6+6]
- 2.a) Discuss the message system paradigm with neat sketch.
- b) Explain the Remote Procedure Call model (RPC). [6+6]
3. Describe the publish/Subscribe message system model in detail. [12]
- 4.a) Draw the java RMI architecture and explain in brief.
- b) Write about the COBRA object services. [6+6]
5. Describe in brief CORBA, ORB, GIOP, and IIOP. [12]
- 6.a) Explain the distributed coordination model.
- b) Define distributed multimedia system. Explain the characteristics of multimedia data. [6+6]
7. Compare between TIB and JINI. [12]
- 8.a) Define Grid and discuss the grid architecture with neat diagram.
- b) Write the applications of cluster computing. [6+6]

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