

**Code No: C8203, C7803**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
M.TECH I - SEMESTER EXAMINATIONS, APRIL/MAY-2012  
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) Discuss monolithic computing and compare with cooperative computing.  
(b) Define distributed computing. List the strengths and weaknesses of it.
2. (a) Write about the stream-mode socket API for data transfer in client-server paradigm.  
(b) Explain the publish/subscribe message model.
3. (a) Give a detail note on archetypal distributed object system.  
(b) Discuss the significance of naming service in RMI Registry.
4. (a) With illustrations explain collaborative applications.  
(b) What criteria to be followed in selecting a paradigm for an application?  
Explain with an example.
5. (a) Discuss the elements of Internet Inter-ORB Protocol specification.  
(b) List any six CORBA Object Services.  
(c) Describe different types of CORBA object adapters.
6. (a) Discuss the steps for accessing a remote service in JINI.  
(b) Is TIB a coordination model? Justify your answer  
(c) Make a comparison between WWW and Lotus Notes.
7. (a) Write about Quality of service management in distributed multimedia systems.  
(b) Discuss software agents and agent technology
8. (a) What is a grid? Describe types of grids and their applications.  
(b) Briefly discuss the programming models of cluster computing.

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