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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