

**R09****Code: 9A12703**

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013

**DISTRIBUTED COMPUTING**

(Information Technology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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1. (a) What is a distributed system? Give some examples.  
(b) Write notes on request-response protocols.
2. Discuss in detail the distributed objects paradigm.
3. Distinguish among the following:
  - (a) Connection oriented and connection less servers.
  - (b) Literature and concurrent servers.
  - (c) Unicasting and multicasting.
  - (d) Reliable and unreliable multicasting.
4. (a) Give a sample RMI application and explain.  
(b) Make a comparison of RMI and socket API.
5. Write notes on the following:
  - (a) CORBA object interface.
  - (b) Object servers and object clients.
  - (c) Java IDL.
6. (a) Explain the anatomy of grid computing.  
(b) Discuss about merging the grid services architecture with the web services architecture.
7. (a) Explain the architecture and goal of open grid service architecture.  
(b) Discuss open grid services infrastructure in detail.
8. Describe the following regarding globus GT3 toolkit.
  - (a) Architecture.
  - (b) Programming model.

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