Code: 9A12703

R09

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017
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 monolithic, distributed, parallel and cooperative computing?
   (b) Describe the strength and weakness of distributed computing.

2 (a) Discuss the message system paradigm with neat sketch.
   (b) Explain the remote procedure call model (RPC).

3 (a) Explain the group communication unicasting versus multicasting.
   (b) Describe the reliable multicasting versus unreliable multicasting.

4   In distributed object paradigm (RMI) explain the steps for building an RMI
        application.

5   Describe in brief CORBA object interface inter-ORB protocols.

6 (a) Describe the grid computing road map.
   (b) Draw the merging grid services architecture with the web services
        architecture.

7   Explain the use cases for commercial data center, national fusion
        collaboratory and OGSA platform components.

8   Describe the following regarding globus GT3 toolkit.
   (a) Architecture.
   (b) Programming model.

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