

R09**Code: 9A12703**

B.Tech IV Year I Semester (R09) Regular & Supplementary Examinations December 2015

DISTRIBUTED COMPUTING

(Information Technology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) What is the meaning of distributed computing? Give in detail operating system related concepts relevant to distributed computing.
(b) What do you mean by interprocess communication? Explain the term event synchronization.
- 2 (a) What are the different paradigms for distributed applications?
(b) With the help of neat labeled diagram explain RMI in detail.
- 3 (a) Explain the concept of group communication with help of unicasting and multicasting.
(b) What are the different issues in client server paradigm?
- 4 (a) Write a sample RMI application in java..
(b) With the help of neat labeled diagram, explain distributed object architecture.
- 5 (a) Enlist different inter ORB protocols.
(b) Explain different CORBA object services.
- 6 (a) What do you mean by grid technology? Give its relationship to other distributed technology.
(b) Explain the concept of virtual organization with respect to grid architecture.
- 7 (a) Explain with help of neat labeled diagram, architecture of open grid service.
(b) What are the sample use cases for OGSA?
- 8 (a) Write about grid services? Explain GT3 tool kit.
(b) Write a sample implementation of GT3 tool kit.
