

Code: 9A05703

R09

B.Tech IV Year I Semester (R09) Regular & Supplementary Examinations December 2014

GRID AND CLUSTER COMPUTING
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Discuss the strengths and weaknesses of distributed computing.
(b) How to choose a paradigm for distributed applications? Quote suitable examples.
- 2 (a) Explain the strategies for developing parallel applications.
(b) Discuss the advantages of programming skeletons for parallel programming.
- 3 With a diagram give the detailed architecture of a cluster discuss each component.
- 4 (a) How does the collective layer of a grid coordinates multiple resources? Explain.
(b) What are the essential capabilities of business on demand operating environment?
- 5 (a) Explain the web service architecture.
(b) Describe WSDL document structure.
- 6 Discuss the core concepts, scenarios and the requirements drawn from "National Fusion Collaboratory".
- 7 Explain factory callback mechanism, Grid service lifecycle callbacks and lifecycle management.
- 8 (a) Write about component model for information services.
(b) Give a note on the OGS.NET architecture and request flow.
