

Code: 9A05703

R09

B.Tech IV Year II Semester (R09) Advanced Supplementary Examinations, July 2013

GRID AND CLUSTER COMPUTING

(Computer Science and Systems Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Briefly discuss different forms of computing.
(b) With the help of neat diagram explain different components of distributed architecture.
- 2 (a) Explain different levels of parallelism.
(b) Discuss various parallel programming models and paradigms.
- 3 (a) With the help of diagram explain different components in the architecture of cluster.
(b) Briefly discuss different types of clusters.
- 4 Illustrate a layered grid architecture and its relationship to other internet protocol architecture.
- 5 (a) Discuss the WSDL1.1 abstracts and agreed-upon components.
(b) Write the XML code for WS-security header in SOAP message.
- 6 Explain OGSF port type inheritance model for operating system services and the operating system factory service sample.
- 7 (a) Illustrate GT3-provided service notification process.
(b) Briefly discuss service and handler invocation model.
- 8 (a) Explain the process of dynamic notification process using the concept of topics.
(b) Illustrate OGSF, net architecture and request flow.
