Code: 9A05703 **R09**

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2016

GRID & CLUSTER COMPUTING

(Computer Science & Engineering)

Time: 3 hours Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

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1 (a) Explain the architecture of distributed applications.
(b) Discuss the pros and cons of distributed computing.

2 (a) List and explain the traditional features in gird and parallel computing environments.
(b) Discuss the parallel programming models and paradigms.

3 (a) Draw the architecture of cluster and define all the components.
(b) List and explain the applications of cluster.

4 (a) Define grid computing. Write the characteristics of grid computing.
(b) Discuss the gird computing anatomy.

5 (a) Briefly explain the web services.
(b) How can you merge grid service architecture with web service architecture?

6 (a) Explain the OGSA security model implemented at various protection levels with a neat diagram.
(b) Write short notes on open grid services infrastructure.

7 (a) Explain each and every component of Globus GT3 toolkit architecture.
(b) Discuss the major components of a grid resource managements system supported by Globus.

8 Explain how Microsoft's OGSI.NET implements middleware technologies.

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