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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013

COMPUTER SCIENCE AND ENGINEERING BRANCH

SIXTH SEMESTER

CS9039 – GRID COMPUTING

(REGULATIONS 2008)

Time: 3 Hours

Max. Marks: 100

Answer All Questions

PART – A (10 x 2 = 20 Marks)

- 1 Differentiate between grid computing and cluster computing.
- 2 Compare parallel and distributed computing.
- 3 List the features of a grid monitoring system.
- 4 Write in brief about Ganglia.
- 5 Discuss the features PBS Pro.
- 6 Comment on the need of Grid security.
- 7 What are federation services?
- 8 List the different Grid data management challenges.
- 9 Give the significance of middleware in Grid Computing?
- 10 List the various services available in gLite.

Part – B (5 x 16 = 80 Marks)

11. What is OGSA? List and explain its features. (16)
12. (a) Comment on the features of Globus Monitoring and Discovery System. (16)
(OR)
12. (b) Write in detail about R-GMA. (16)
13. (a) Discuss in detail about Grid scheduling. (16)
(OR)
13. (b) List and explain the features of Sun Grid Engine. (16)

14. (a) Write a note on Collective Data Management Services. (16)

(OR)

14. (b) What are Grid portals? Compare first and second generation Grid Portals. (16)

15. (a) Write a detailed note on Globus toolkit. (16)

(OR)

15. (b) Discuss with a neat sketch the architecture of gLite.. (16)