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**B.E / B.Tech (Full-time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2011
COMPUTER SCIENCE AND ENGINEERING BRANCH**

SEVENTH SEMESTER

46

CS9039 - Grid Computing

REGULATIONS 2005

Time : 3 hrs

Max Mark : 100

Answer ALL Questions
Part - A (10x2 = 20Marks)

1. Distinguish between parallel and distributed computing
2. What are the characteristics of GRID Service?
3. Briefly explain Network Weather Service
4. Write short notes on Netlogger and Dyninst
5. State the key characteristics of GRID Security Model
6. What are the enabling mechanisms in Condor?
7. State the phases of Scientific Data Exploration
8. What are the functionalities of Portal Engine in GPKD?
9. State the purpose of AXIS Engine in GT3
10. Write short notes on GT3 Grid Service container

Part - B (5x 16 = 80 Marks)

11. Explain in detail the anatomy and physiology of Grid. (16)
- 12.a) How Grid monitoring Components are layered? Explain each of the layer and it's Components. (16)

(OR)

- b) Design the stages of program instrumentation and explain each stage with an example. (16)

13.a) Explain in detail the components of the Grid security model. (16)

(OR)

b) Explain the Logical Grid Scheduling Architecture. (16)

14.a) i) State the categories of structured data and explain (8)

ii) How virtual data base system is built on the Grid (8)

(OR)

b) Explain the Grid Portal Architecture (16)

15. a) Explain the Globus Toolkit's GT3 Software Architecture model. (16)

(OR)

b) Where gLite Middleware was created and explain the components and services of gLite (16)