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**B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APR / MAY 2013**

**COMPUTER SCIENCE AND ENGINEERING**

**FIFTH SEMESTER**

**CS 9039 – GRID COMPUTING**

**(Regulation 2008)**

**Time : 3 Hours**

**Max. Marks 100**

**Answer All Questions**

**PART-A (10 x 2 = 20 Marks)**

1. Write the concepts on parallel and distributed computing.
2. Explain OGSA?
3. What is GridMon?
4. Write in brief about JAMM.
5. List the various challenges to Grid security.
6. Give details about Condor.
7. List the different Grid data management challenges.
8. What are Grid portals?
9. What is a middleware in Grid Computing?
10. What are the services included in existing Globus tool kit?

**PART-B (16 x 5 = 80 Marks)**

- 11 Explain the various web services pertaining to Grid Computing. **(16)**
  
- 12 (a) Explain the features of a Grid Monitoring System. **(16)**  

**(OR)**

 (b) Explain in detail about GridICE. **(16)**
  
- 13 (a) Discuss in detail about Grid scheduling and resource management. **(16)**

**(OR)**

(b) Explain in detail about PKI-X509 certificate. (16)

14 (a) Briefly explain Federation Services. Give suitable examples. (16)

(OR)

(b) Discuss the various approaches towards data management in Grids. (16)

15 (a) Discuss in detail the architecture and components of Globus toolkit. (16)

(OR)

(b) List and explain the features of gLite. (16)