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**B.E/ B.Tech. (Full-Time) END SEMESTER EXAMINATIONS, NOV/DEC 2011**

**BRANCH: IT**

**VII SEMESTER – REGULATIONS 2004**

**IT514 GRID COMPUTING**

**Time: 3 hrs.** **Max.Marks:100**

**Answer All Questions**

**Part – A (10X2 = 20 Marks)**

1. List the different types of grid.
2. List any two application areas of grid.
3. What is a grid service?
4. What is a grid portal?
5. What is OGSA?
6. List the goals of OGSA architecture.
7. Highlight the load balancing features in GT3.
8. Explain the role of JAX-RPC in GT3.
9. How are resources discovered in GT3?
10. Highlight the features of GridFTP.

**PART B (5 X 16 = 80 Marks)**

11. (i) List the infrastructure required for grid computing. (8)

    (ii) List the organization and their roles in grid computing toolkit/ framework.(8)

12.

(a) (i) Justify the need for grid computing solutions. (8)

(ii) Compare grid services with web services. (8)

(OR)

(b) (i) Explain the relationship between grid and other distributed technologies. (8)
(ii) Explain the issues in data grids. (8)

13.
(a) (i) List and explain the basic services of OGSA. (8)
(ii) Explain the technical details of OGSI specification. (8)

(OR)

(b) Explain the security standards available for grid computing.

14.
(a) Highlight the features of Globus toolkit.

(OR)

(b)
(i) Explain the steps involved in grid service implementation. (10)
(ii) How grid services are activated and deactivated? Explain. (6)

15.
(a) (i) List the high level services provided by grid. (8)
(ii) Explain the role of grid computing in mobile devices. (8)

(OR)

(b) (i) Explain the grid service solutions provided in .NET (10)
*(ii) Explain the role of dispatcher in OGSI.* (6)