

6/11/13

19

B.E/B.TECH (Full Time) DEGREE END EXAMINATION, Nov/Dec 2013

DEPARTMENT OF INFORMATION TECHNOLOGY
SIXTH SEMESTER

IT9354/GRID COMPUTING
(REGULATION -2008)

Duration: 3 hours

Max. Marks: 100

Answer all questions

Part – A (10 * 2 = 20)

- 1 Compare and contrast parallel computing and distributed computing
- 2 Find the differences of Web service and Grid services
- 3 What are the different resource discovery models in grid?
- 4 Write short notes on Ganga.
- 5 Write short notes on grid scheduling with QoS.
- 6 List out the principles of local schedulers.
- 7 List out the data management challenges.
- 8 What are the different classes of data oriented services?
- 9 Write short notes on data transport service in collective data management service.
- 10 List out globally available middleware

Part-B (5 * 16 = 80)

- 11
 - i. Explain physiology of grid computing.
 - ii. Differentiate OGSI with WSRF.
 - 12
 - a. Explain- GridICE and GridMon

Or

 - b.
 - i. Explain – Grid Monitoring Architecture
 - ii. Explain the major components & working model of NWS
 - 13
 - a. Explain- daemons present in the SGE with its job life cycle

Or

 - b. Write short notes on
 - i. Symmetric cryptosystem
 - ii. Asymmetric cryptosystem
 - iii. Digital Signature
 - iv. CA
 - 14
 - a.
 - i. Explain the categories of structured data
 - ii. Explain the first generation grid portal

Or

 - b.
 - i. Explain about the data source services
 - ii. Explain the problems of first generation grid portal, how that can be sort by grid portlets
 - 15 Explain – Architecture, components and features of Globus Tool kit
- Or
- Explain - Architecture, components and features of gLite