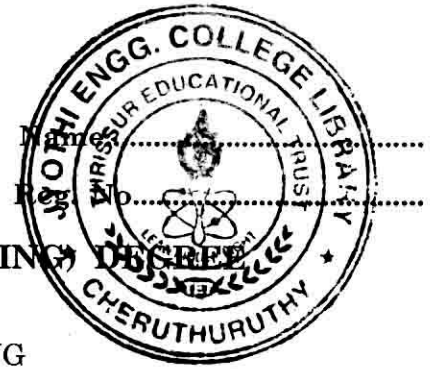C 60585

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## EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, APRIL 2014

### IT 09 804 L 20—GRID COMPUTING

Time : Three Hours

Maximum : 70 Marks

## Part A

*Answer all questions.*
*Each question carries 2 marks.*

1. Differentiate between peer to peer networks and grid computing.

2. What do you mean by return on technology investment ?

3. What do you mean by montague river domain ?

4. What do you mean by AFS ?

5. Explain about hive computing.

(5 × 2 = 10 marks)

## Part B

*Answer any four questions.*
*Each question carries 5 marks.*

6. Explain about grid marketplace.

7. How to integrate application with middleware platforms ? Give an example.

8. Define data catalog and replica management.

9. Discuss about the key elements of desktop grid technology.

10. Explain in detail about application and architecture of HPC grids.

11. Discuss about the OGSA platform models.

(4 × 5 = 20 marks)

## Part C

*Answer all questions.*
*Each question carries 10 marks.*

12. (a) Discuss about grid computing business value analysis and risk analysis.

*Or*

(b) Discuss about the grid protocols.

**Turn over**

13. (a) Write sample API using grid enabling network services.

*Or*

(b) Write about global grid architecture and managing grids.

14. (a) Explain in detail about parallel programming in desktop grids.

*Or*

(b) Explain in detail about alternatives to data grid.

15. (a) Explain tools and tool kits for managing grid services.

*Or*

(b) Explain about cluster grids with neat example.

(4 × 10 = 40 marks)