Question Paper Code : 91411

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Seventh/Sixth Semester

Computer Science and Engineering

CS 6703 – GRID AND CLOUD COMPUTING

(Common to Information Technology)

(Regulations 2013)

(Also Common to PTCS 6703 – Grid and Cloud Computing for B.E. Part-Time –
Sixth Semester Computer Science and Engineering – Regulations 2014)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   (10×2=20 Marks)

1. Define Grid computing.

2. What is the impact of SOA in cloud ?

3. What are the requirements for the web services based on OGSI ?

4. What is the need for data intensive grid service models ?

5. List the pros and cons of cloud computing.

6. Give the significance of virtualization for data center automation.

7. What is the usage of Globus ?

8. State the significance of heart beat message in Hadoop.

9. Differentiate between authentication and authorization.

10. List out the key privacy issues in cloud.

PART – B   (5×13=65 Marks)

11. a) Illustrate the evolution of distributed computing to grid and cloud computing.

(OR)

b) Describe the grid architecture.

12. a) Illustrate the detailed view of OGSA/OGSI.

(OR)

b) Explain about the OGSA services.

13. a) Illustrate the cloud delivery models in detail.

(OR)

b) Illustrate the design of a large-scale virtual cluster system.

14. a) Explain the Globus toolkit architecture.

(OR)

b) Illustrate the design of Hadoop file system.

15. a) Explain the grid and cloud security infrastructure.

(OR)

b) Describe the IAM practices in Saas, PaaS and IaaS availability in cloud.

PART – C   (1×15=15 Marks)

16. a) Compare and contrast the cloud deployment models.

(OR)

b) Analyze how MapReduce framework supports parallel and distributed computing on large data sets with a suitable example.