

Seventh Semester

Computer Science and Engineering

CS 6703 — GRID AND CLOUD COMPUTING

(Common to Seventh Semester Information Technology)

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Bring out the differences between private cloud and public cloud.
2. Highlight the importance of the term "cloud computing".
3. List the requirements of resource sharing in a grid.
4. What are the security concerns associated with the grid?
5. Give the role of a VM.
6. Why do we need a hybrid cloud?
7. Name any four services offered in GT4.
8. What are the advantages of using Hadoop?
9. Mention the importance of Transport Level Security.
10. Discuss on the application and use of identity and access management.

PART B — (5 × 16 = 80 marks)

11. (a) Illustrate the architecture of virtual machine and brief about the operations.

Or

- (b) Write short notes on :

- (i) cluster of cooperative computers. (8)
(ii) service oriented architecture. (8)

12. (a) With a neat sketch, discuss the OGSA framework.

Or

- (b) Explain the data intensive grid service models with suitable diagrams.

13. (a) List the cloud deployment models and give a detailed note about them.

Or

- (b) Give the importance of cloud computing and elaborate the different types of services offered by it.

14. (a) Draw and explain the global toolkit architecture.

Or

- (b) Give a detailed note on Hadoop framework.

15. (a) Explain trust models for grid security environment.

Or

- (b) Write in detail about cloud security infrastructure.
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