

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

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 — $(10 \times 2 = 20 \text{ marks})$

- 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 — $(5 \times 16 = 80 \text{ marks})$ |
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| 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 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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