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14SCN251

**Second Semester M.Tech. Degree Examination, June/July 2015**

**Cloud Computing**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1 a. Define the attributes of the new philosophy for delivering computing services. (04 Marks)  
b. With neat diagram, explain cloud computing at Amazon. (10 Marks)  
c. Explain the most obvious obstacles in cloud computing. (06 Marks)
  
- 2 a. Explain different types of delivery models in cloud. (06 Marks)  
b. Explain the following open source cloud computing platform:  
i) Eucalyptus (06 Marks)  
ii) Open Nebula (04 Marks)  
iii) Nimbus (04 Marks)
  
- 3 a. Explain the Zookeeper coordination service with neat diagram. (10 Marks)  
b. Write a note on virtual machine monitor. (05 Marks)  
c. Write the differences between full virtualization and para virtualization. (05 Marks)
  
- 4 a. Explain the optimization network virtualization in Xen 2.0. (10 Marks)  
b. Explain the darker side of virtualization. (05 Marks)  
c. Define SLA. List the objectives of SLA. (05 Marks)
  
- 5 a. Explain utility based model for cloud based web services and nine constraints. (10 Marks)  
b. Explain pricing and allocation algorithm. (05 Marks)  
c. Write a note on resource management and dynamic application scaling. (05 Marks)
  
- 6 a. Explain three broad classification of risks. (10 Marks)  
b. Explain the top concerns for cloud users with respect to security. (10 Marks)
  
- 7 a. Write a note on launch an EC2 linux instances and connect to it. (10 Marks)  
b. Explain a distributes algorithm for trust management in cognitive radio. (10 Marks)
  
- 8 Write notes on:  
a. Hypervisor types (05 Marks)  
b. Ethical issues in cloud computing (05 Marks)  
c. Cloud storage diversity and vendor lock in (05 Marks)  
d. Performance and isolation (05 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg: 42+8 = 50, will be treated as malpractice.