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14SCN251

Second Semester M.Tech. Degree Examination, Dec.2015/Jan.2016
Cloud Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. With a neat diagram, explain the services offered by Amazon web services. (10 Marks)
b. Explain the different types of delivery models in cloud with a neat diagram. (10 Marks)
- 2 a. Explain the solutions that address avoidance of vendor lock-in and storage reliability in cloud. (08 Marks)
b. Define SLA and list the objectives of SLA. (06 Marks)
c. What are the challenges for cloud computing in developing efficient cloud application? (06 Marks)
- 3 a. Briefly explain the Zookeeper coordination service model with a neat diagram. (10 Marks)
b. With the architecture, explain the MapReduce programming model. (10 Marks)
- 4 a. What is a virtual machine? With a neat diagram, explain different types of virtual machines. (10 Marks)
b. With the architecture describe paravirtualization strategies for virtual memory management, CPU multiplexing and I/O devices for the original X86 Xen implementation. (10 Marks)
- 5 a. Describe cloud resource management policies and mechanisms. (06 Marks)
b. Briefly explain ASCA combinatorial auctions algorithm with a schematic block diagram. (10 Marks)
c. Write a note on dynamic application scaling. (04 Marks)
- 6 a. What are the different classes of risk in cloud for providing security? (08 Marks)
b. With a neat diagram, explain virtual security services provided by VMM. (08 Marks)
c. Briefly analyze design of trusted virtual machine monitor. (04 Marks)
- 7 a. Write the step-by-step process to launch an EC2 linux instance and connect to the instance. (10 Marks)
b. What are the software packages used to install Hadoop an eclipse on a windows systems? Write the pre-requisites and SSH installation. (10 Marks)
- 8 Write short notes on the following:
a. Components of windows azure
b. Virtual machine monitors
c. Grep the web application
d. Cognitive radio networks (20 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. 4218-50, will be treated as malpractice