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First Semester M.Tech. Degree Examination, Dec.2014/Jan.2015
Cloud Computing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

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.

- 1 a. Define cloud computing. Explain the different types of delivery models in a cloud, with a neat diagram. (10 Marks)
- b. With the neat diagram, explain the components of windows azure. (10 Marks)
- 2 a. Explain the concept of interoperability in cloud. (08 Marks)
- b. Define SLA. List the objectives of SLA. (06 Marks)
- c. What are the challenges for licensing software in cloud computing? (06 Marks)
- 3 a. Briefly explain different workflow patterns in a cloud. (10 Marks)
- b. With the architecture, explain the map-reducing programming model. (10 Marks)
- 4 a. What is the need of layering and virtualization in cloud? Explain with architecture. (10 Marks)
- b. What are the problems faced by virtualization of the x86 architecture. (06 Marks)
- c. Write the difference between CPU virtualization and memory virtualization in an x86 – 64 Itanium processor. (04 Marks)
- 5 a. Explain two – level resource allocation architecture based on control theory concept for the cloud. (06 Marks)
- b. Briefly explain ASCA combinational auction algorithm with a schematic block diagram. (08 Marks)
- c. Explain the approach for co-orientating power and performance management in cloud. (06 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. List the various design goals of X_{oar}. (04 Marks)
- 7 a. Explain security rules for application and transport layer protocols in EC2. (10 Marks)
- b. What are the software packages used to install Hadoop on eclipse on a windows systems? Write the pre requisites and SSH installation. (10 Marks)
- 8 Write a short notes on the following : (20 Marks)
 - a. Cloud computing in Google perspective
 - b. Software fault isolation
 - c. The Grep the web application
 - d. Pricing and allocation algorithm.
