

## CS 499 Introduction to Cloud Computing

Spring 2017-18

### Quiz # 1

Registration #: \_\_\_\_\_

Choose the best answer:

1. Which of the following is not true about cloud computing?
  - a. Data is stored on the user's computer
  - b. Users typically access the cloud using the Internet
  - c. A cloud can be public or private
  - d. The cloud includes software, hardware and a network
2. Which of the following tiers of a cloud data center network is expected to have the greatest level of congestion?
  - a. Access
  - b. Aggregation
  - c. Core
3. An access tier switch in a campus network typically has which of the following interfaces?
  - a. 10 Mbps Ethernet
  - b. 100 Mbps Ethernet
  - c. 1 Gbps Ethernet
  - d. 10 Gbps Ethernet
4. Most of the traffic in a cloud data center is?
  - a. North-South
  - b. South-West
  - c. North-South
  - d. East-West
5. A Clos network can be used to?
  - a. Reduce the level of congestion in the network
  - b. Create networks with more ports
  - c. Get rid of unused ports in the network
  - d. Use Ethernet in the wide area network

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1. Which of the following is an example of scale up?
  - a. Replacing a low computing power server with multiple low power servers
  - b. Replacing a low computing power server with one of greater computing power
  - c. Both of the above
  - d. None of the above
2. Cloud computing charges users a flat fee for usage
  - a. True
  - b. False
3. Which of the following is not a benefit of cloud computing?
  - a. Elasticity
  - b. Lower IT operations costs
  - c. Global distribution
  - d. Security of confidential data
4. Gmail is an example of which of the following?
  - a. IaaS
  - b. PaaS
  - c. SaaS
  - d. None of the above
5. A user request for Google search enters a Google data center nearest to which of the following tiers in their data center?
  - a. Access tier
  - b. Aggregation tier
  - c. Core tier

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1. Which of the following is not directly related to Ethernet?
  - a. Crossbar
  - b. MAC address
  - c. Ring
  - d. CSMA/CD
2. Server virtualization and three tier network design result in
  - a. Increased latency
  - b. Variable latency
  - c. Both of the above
  - d. None of the above
3. Which of the following is true about grid computing?
  - a. It divides the processing amongst many servers
  - b. Does not require any special software
  - c. Runs an application on one server
4. For a user, cloud computing eliminates vendor lock in?
  - a. True
  - b. False
5. Xen falls into which category of virtualization?
  - a. ISA level virtualization
  - b. Full virtualization
  - c. Paravirtualization
  - d. OS-level virtualization

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1. Amazon EC2 falls into which of the following categories?
  - a. IaaS
  - b. PaaS
  - c. SaaS
  - d. None of the above
2. Which of the following is not eliminated by cloud computing?
  - a. Staff training cost
  - b. IT spending
  - c. Both of the above
  - d. None of the above
3. Traffic between servers in different clusters traverses which of the following network tiers?
  - a. Access tier
  - b. Aggregation tier
  - c. Core tier
  - d. All of the above
4. Which of the following is not a benefit of server consolidation?
  - a. Space saving
  - b. Energy saving
  - c. Training cost is saved
  - d. Hardware cost is reduced
5. Cloud data centers are geographically dispersed to lower which of the following?
  - a. Latency
  - b. Availability
  - c. Both of the above
  - d. None of the above

