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