- If switches are used to replace hubs on a network, which of the following statements is true?
a) The number of broadcast domains will increase
b) The number of collision domains will decrease
c) The number of broadcast domains will decrease
d) The number of collision domain will increase

Ans: d

- Choose the correct difference between a switch and a hub in networking.

a) A switch broadcasts data to all ports
b) A hub is smarter than a switch
c) A switch connects directly to the internet
d) A switch sends data only to the destination port

Ans: d

- Which of the following function of the Data Link Layer in the OSI model?
a) Manages file compression
b) Handles IP addressing
c) Controls email routing
d) Provides node-to-node data transfer

Ans: d

- Tell which of the following is a network protocol.
a) RAM
b) FTP
c) XML
d) HTML

Ans: b

- Tell the purpose of IP addressing in networking.
a) To name software applications
b) To ensure device identification and communication
c) To convert plaintext to cypher text
d) To provide login details

Ans: b

- Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?
a) CDMA
b) CSMA/CA
c) Pure ALOHA
d) Slotted ALOHA

Ans: b

- Who is the father of cloud computing?
a) J.C.R. Liclider
b) Charles Batchman
c) Edgar Frank Codd
d) Sharon B. Codd

Ans: a)

- Which of the following is an example of a PaaS cloud service?
a) Heroku
b) Windows Azure
c) AWS Elastic Beanstalk
d) All of the above

Ans: d

- Which of the following is an example of an IaaS Cloud service?
a) Linode
b) Rackspace
c) Digitalocean
d) All of the above

Ans: d

- Identify the correct statement about cloud computing.
a) Cloud computing relies on a set of protocols needed to manage interprocess communications
b) Cloud architecture can couple software running on virtualized hardware in multiple locations to provide an on-demand service
c) Platforms are used to create more complex software
d) All of the above

Ans: d

- Which of the following is the wrong statement about cloud computing?
a) Private cloud doesn't employ the same level of virtualization
b) Private cloud doesn't pooling of resources that a cloud computing provider can achieve
c) Abstraction enables the key benefit of cloud computing: shared, ubiquitous access
d) Data center operates under average loads

Ans: a

- Which of the following monitors the performance of the major cloud-based services in real time in Cloud Commons?
a) CloudMetrics
b) CloudSEnsory
c) CloudWatch
d) All of the above

Ans: b

- How many phases are there in Cloud Computing Planning?
a) 1
b) 3
c) 2
d) 4

Ans: b

- In distributed systems, links and site failure is detected by
a) Token Passing
b) Handshaking
c) Polling
d) None of these

Ans: b

- Out of these combinations, which one is possible in the WebSphere ESB
a) SOAP/HTTP
b) Governance
c) SOAP/JMS
d) XML/JMS

Ans: c

- What is the function of SLA management system in a real life scenario?
a) Tracks file access
b) Ensures service-level agreement is enforced with penalties
c) Runs auto-emails
d) Schedules appointments

Ans: b

- What is the importance of dynamic scalability in the cloud?
a) To manually upgrade servers
b) To auto-adjust resources as demand changes
c) To reduce load on user PCs
d) To increase latency

Ans: b

- Choose the purpose of service load balancing in cloud platforms.
a) Limiting services
b) Evenly distributing traffic among services
c) Stopping all services
d) Encrypting all data

Ans: b

- What is the meaning of cloud bursting?
a) Bursting data to the public
b) Buying new servers
c) Running out of memory
d) Expanding workload temporarily to external cloud

Ans: d

- Operate a resource monitoring system to detect overload. What will help?
a) RAM usage graph
b) Router logs
c) Clock time
d) Excel sheet

Ans: a