Cisco

Exam Questions 642-874
Designing Cisco Network Service Architectures
Question No : 1
Refer to the exhibit.

Which recommended practice is applicable?
A. If no core layer is deployed, the design will be easier to scale.
B. A dedicated campus core layer should be deployed for connecting three or more buildings.
C. If no core layer is deployed, the distribution switches should not be fully meshed.
D. A dedicated campus core layer is not needed for connecting fewer than five buildings.

Answer: B

Question No : 2
When a router has to make a rate transition from LAN to WAN, what type of congestion needs should be considered in the network design?
A. RX-queue deferred
B. TX-queue deferred
C. RX-queue saturation
D. TX-queue saturation
E. RX-queue starvation
F. TX-queue starvation

Answer: F

Question No : 3
To which switch or switches should you provide redundant links in order to achieve high availability with reliable fast convergence in the enterprise campus?
A. to a core switch running Cisco NSF and SSO from redundant distribution switches connected with a Layer 2 link
B. to a core switch running Cisco NSF and SSO from redundant distribution switches connected with a Layer 3 link
C. to two core switches from redundant distribution switches connected with a Layer 2 link
D. to two core switches from redundant distribution switches connected with a Layer 3 link
E. to two core switches running Cisco NSF and SSO from two redundant distribution switches running Cisco NSF and SSO

Answer: D

Question No : 4
Which of these statements is correct regarding Stateful Switchover and Cisco Nonstop Forwarding?
A. Utilizing Cisco NSF in Layer 2 environments can reduce outages to one to three seconds.
B. Utilizing SSO in Layer 3 environments can reduce outages to one to three seconds.
C. Distribution switches are single points of failure causing outages for the end devices.
D. Utilizing Cisco NSF and SSO in a Layer 2 environment can reduce outages to less than one second.
E. NSF and SSO with redundant supervisors have the most impact on outages at the access layer.

Answer: E

Question No : 5
When is a first-hop redundancy protocol needed in the distribution layer?
A. when the design implements Layer 2 between the access and distribution blocks
B. when multiple vendor devices need to be supported

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C. when preempt tuning of the default gateway is needed
D. when a robust method of backing up the default gateway is needed
E. when the design implements Layer 2 between the access switch and the distribution blocks

Answer: A

Question No : 6
Which of these is a recommended practice with trunks?
A. use ISL encapsulation
B. use 802.1q encapsulation
C. set ISL to desirable and auto with encapsulation negotiate to support ILS protocol negotiation
D. use VTP server mode to support dynamic propagation of VLAN information across the network

Answer: B

Question No : 7
Which of the following is a recommended practice of a data center core?
A. Server-to-server traffic always remains in the core layer.
B. The core infrastructure should be in Layer 3.
C. Core layer should run BGP along with an IGP because iBGP has a lower administrative distance than any IGP.
D. The Cisco Express Forwarding hashing algorithm is the default, based on the IP address and Layer 4 port.

Answer: B

Question No : 8
Which statement about data center access layer design modes is correct?
A. The access layer is the first oversubscription point in a data center design.
B. The data center access layer provides the physical-level connections to the server resources and only operates at Layer 3.
C. When using a Layer 2 looped design, VLANs are not extended into the aggregation layer.
D. When using a Layer 3 design, stateful services requiring Layer 2 connectivity are provisioned from the aggregation layer.

Answer: A

Question No : 9
Which of these Layer 2 access designs does not support VLAN extensions?
A. FlexLinks
B. loop-free U
C. looped square
D. looped triangle
E. loop-free inverted U

Answer: B

Question No : 10
Which statement about Fibre Channel communications is correct?
A. N_Port to N_Port connections use logical node connection points.
B. Flow control is only provided by QoS.
C. It must be implemented in an arbitrated loop.

D. Communication methods are similar to those of an Ethernet bus.

Answer: A

Question No : 11

In base e-Commerce module designs, where should firewall perimeters be placed?

A. core layer
B. Internet boundary
C. aggregation layer
D. aggregation and core layers
E. access and aggregation layers

Answer: A

Question No : 12

The Cisco Nexus 1000V is intended to address which disadvantage of the VMware vSphere solution?

A. Inability to deploy new functional servers without requiring physical changes on the network
B. Complexity added by the requirement for an ESX host for each virtual machine
C. Network administrators lack control of the access layer of the network
D. To increase the number of physical infrastructure and the virtual machines that can be managed

Answer: C

Question No : 13

Which of the following facts must be considered when designing for IP telephony within an Enterprise Campus network?

A. Because the IP phone is a three-port switch, IP telephony extends the network edge, impacting the Distribution layer.
B. Video and voice are alike in being bursty and bandwidth intensive, and thus impose requirements to be lossless, and have minimized delay and jitter.
C. IP phones have no voice and data VLAN separation, so security policies must be based on upper layer traffic characteristics.
D. Though multi-VLAN access ports are set to dot1q and carry more than two VLANs they are not trunk ports.

Answer: D

Question No : 14

Addressing QoS design in the Enterprise Campus network for IP Telephony applications means what?

A. It is critical to identify aggregation and rate transition points in the network, where preferred traffic and congestion QoS policies should be enforced
B. Suspect traffic should be dropped closest to the source, to minimize wasting network resources
C. An Edge traffic classification scheme should be mapped to the downstream queue configuration
D. Applications and Traffic flows should be classified, marked and policed within the Enterprise Edge of the Enterprise Campus network

Answer: A

Question No : 15

With respect to address summarization, which of the following statements concerning IPv4 and IPv6 is true?

A. The potential size of the IPv6 address blocks suggests that address summarization favors IPv6 over IPv4.
B. Role based addressing using wildcard masks to match multiple subnets is suitable for IPv4, but unsuitable for IPv6.
C. In order to summarize, the number of subnets in the IPv4 address block should be a power of 2 while the number of subnets in the IPv6 address block should
be a power of 64.

D. WAN link addressing best supports summarization with a /126 subnet for IPv4 and a /31 for IPv6.

Answer: B
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