

200-310



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Designing for Cisco Internetwork Solutions

Version 4.0

Exam A**QUESTION 1**

Which two statements about designing the Data Center Access layer are correct? (Choose two.)

- A. Multiport NIC servers should each have their own IP address.
- B. Layer 3 connectivity should never be used in the access layer.
- C. Layer 2 connectivity is primarily implemented in the access layer.
- D. Multiport NIC servers should never be used in the access layer.
- E. Layer 2 clustering implementation requires servers to be Layer 2 adjacent.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

An organization needs a WAN Transport technology that meets these criteria:

- has a low initial cost
- provides low-to-medium BW
- has medium-to-high latency and jitter

Which technology should the organization use?

- A. DSL
- B. X.25
- C. ISDN
- D. wireless
- E. analog modem

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Which two of these are scalability benefits of designing a network that utilizes VPNs? (Choose two.)

- A. extends the network to remote users
- B. allows networks to be set up and restructured quickly
- C. reduces dial infrastructure expenditures
- D. reduces the number of physical connections
- E. simplifies the underlying structure of a customer WAN

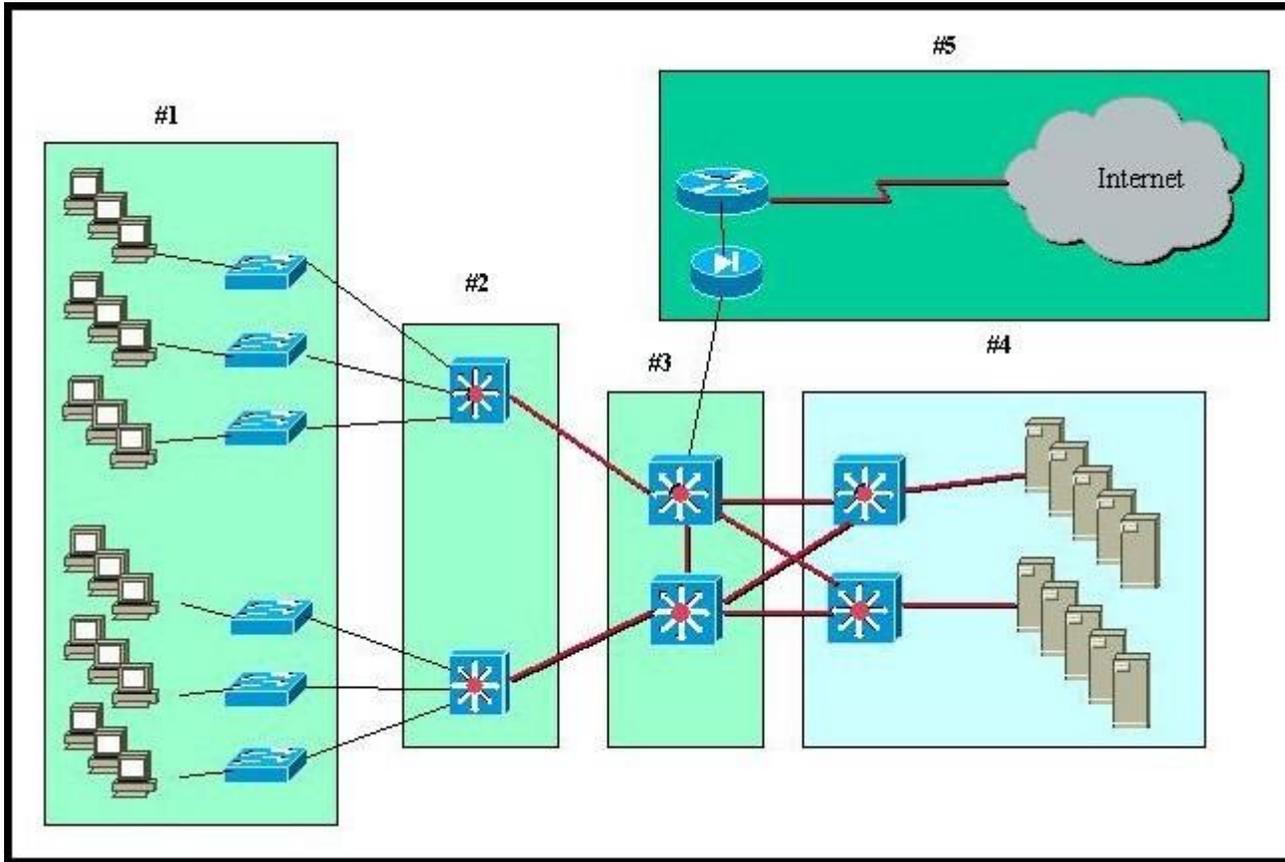
Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4



Refer to the exhibit. A standard Layer 2 campus network design is pictured. Which numbered box represents the core layer?

- A. #1
- B. #2
- C. #3
- D. #4
- E. #5

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 5**

Which two design criteria require VLANs in a proposed solution? (Choose two.)

- A. video streaming on the LAN
- B. security between departments
- C. the segmenting of collision domains
- D. the segmenting of broadcast domains
- E. the use of multivendor equipment
- F. a limited corporate budget

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:**QUESTION 6**

Which three sources does a network designer use to collect information for characterizing an existing network? (Choose three.)

- A. staff input
- B. visual inventory
- C. network audit
- D. traffic analysis
- E. server statistics

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:**QUESTION 7**

Which Cisco security mechanism has the attributes listed below?

- it is a sensor appliance

- it searches for potential attacks by capturing and analyzing traffic
- it is a "purpose-built device"
- it is installed passively
- it introduces no delay or overhead

- A. IKE
- B. PIX
- C. HIPS
- D. NIDS
- E. HMAC

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Which three pieces of information should be documented for each step in a design implementation plan? (Choose three.)

- A. step description
- B. design document references
- C. easy guidelines in case of failure
- D. estimated implementation time
- E. simple implementation guidelines
- F. estimated rollback time in case of failure

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

A company is implementing an Identity Management solution with these characteristics:

- existing AAA Server
- Cisco Catalyst switches

- minimal added investments

Which Cisco Trust and Identity Management solution would you recommend?

- A. NAC Appliance
- B. Cisco IBNS
- C. CSM
- D. Cisco Security MARS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

What is the benefit of VLSM?

- A. reduces configuration complexity by using the same subnet mask length
- B. reduces the routing table size by using automatic route summarization
- C. reduces the routing table size by using manual route summarization
- D. allows the subnet mask and classful routing updates to be advertised
- E. secures the hosts on a subnet by using RFC 1918 addresses

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

You want to gather as much detail as possible during a network audit with a minimal impact on the network devices themselves.

Which tool would you use to include data time stamping across a large number of interfaces while being customized according to each interface?

- A. RMON
- B. SNMPv3
- C. NetFlow

D. Cisco Discovery Protocol

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

What is the primary consideration when choosing a routed network design over a traditional campus network design?

- A. Layer 3 service support at the network edge
- B. the routing protocol choice: open (OSPF) or proprietary (EIGRP)
- C. the routing abilities of the host devices
- D. the need to control the broadcast domains within the campus core

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

Which statement is true concerning the data center access layer design?

- A. The access layer in the data center is typically built at Layer 3, which allows for better sharing of services across multiple servers.
- B. With Layer 2 access, the default gateway for the servers can be configured at the access or aggregation layer.
- C. A dual-homing NIC requires a VLAN or trunk between the two access switches to support the dual IP addresses on the two server links to two separate switches.
- D. The access layer is normally not required, as dual homing is standard from the servers to the aggregation layer.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which statement is true concerning the data center distribution (aggregation) layer design?

- A. With Layer 3 at the aggregation layer, the physical loops in the topology must still be managed by STP.
- B. The boundary between Layer 2 and Layer 3 must reside in the multilayer switches, independent of any other devices.
- C. A mix of both Layer 2 and Layer 3 access is the most optimal.
- D. In a small data center, the aggregation layer can connect directly to the campus core, exchanging IP routes and MAC address tables.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

When considering the three VoIP design models - single site, centralized multisite, and distributed multisite - which question below would help to eliminate one of the options?

- A. Will the switches be required to provide inline power?
- B. Will users need to make offsite calls, beyond the enterprise?
- C. Will users require applications such as voice mail and interactive voice response?
- D. Are there users whose only enterprise access is via a QoS-enabled WAN?

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

With deterministic Wireless LAN Controller redundancy design, the different options available to the designer have their own strengths. Which statement is an example of such a strength?

- A. Dynamic load balancing, or salt-and-pepper access point design, avoids the potential impact of oversubscription on aggregate network performance.
- B. N+N redundancy configuration allows logically grouping access points on controllers to minimize intercontroller roaming events.
- C. N+N+1 redundancy configuration has the least impact to system management because all of the controllers are colocated in an NOC or data center.
- D. N+1 redundancy configuration uses Layer 3 intercontroller roaming, maintaining traffic on the same subnet for more efficiency.

Correct Answer: B

Section: (none)
Explanation

Explanation/Reference:

QUESTION 17

When there is a need for immunity to EMI for connecting locations that are greater than 100 meters apart, which two solutions can be utilized? (Choose two.)

- A. multimode fiber
- B. Fibre Channel
- C. HVDC transmission lines
- D. single-mode fiber
- E. serial RS-232
- F. Gigabit Ethernet 1000BASE-CX

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Which mode is used to exclusively look for unauthorized access points?

- A. monitor mode
- B. sniffer mode
- C. rogue detector mode
- D. local mode

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

OSPF will be used as the IGP within a campus network. Which two things should you consider before deployment? (Choose two.)

- A. All areas need to connect back to area 0.
- B. The OSPF process number on each router should match.
- C. NSSA areas should be used when an area cannot connect directly to area 0.
- D. Stub areas should be connected together using virtual links.
- E. ECMP may cause undesired results depending on the environment.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Which is the North American RIR for IPv4 addresses?

- A. RIPE
- B. ARIN
- C. IANA
- D. IEEE
- E. APNIC

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

An enterprise campus module is typically made up of four submodules, as described by the Cisco Enterprise Architecture Model. Which two submodules are part of this module? (Choose two.)

- A. DMZ
- B. enterprise branch
- C. building distribution
- D. server farm/data center

E. MAN

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

WAN backup over the Internet is often used to provide primary connection redundancy. Which is the most important consideration when passing corporate traffic over the public Internet?

- A. security
- B. static versus dynamic routing
- C. bandwidth
- D. QoS
- E. latency

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

Which type of area should you use in an enterprise OSPF deployment if you want to prevent propagation of type 5 LSAs but still allow the redistribution of external routes?

- A. stub
- B. totally stubby
- C. backbone
- D. NSSA
- E. virtual link

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Which protocol is used for voice bearer traffic?

- A. MGCP
- B. RTP
- C. SCCP
- D. CDP
- E. ICMP

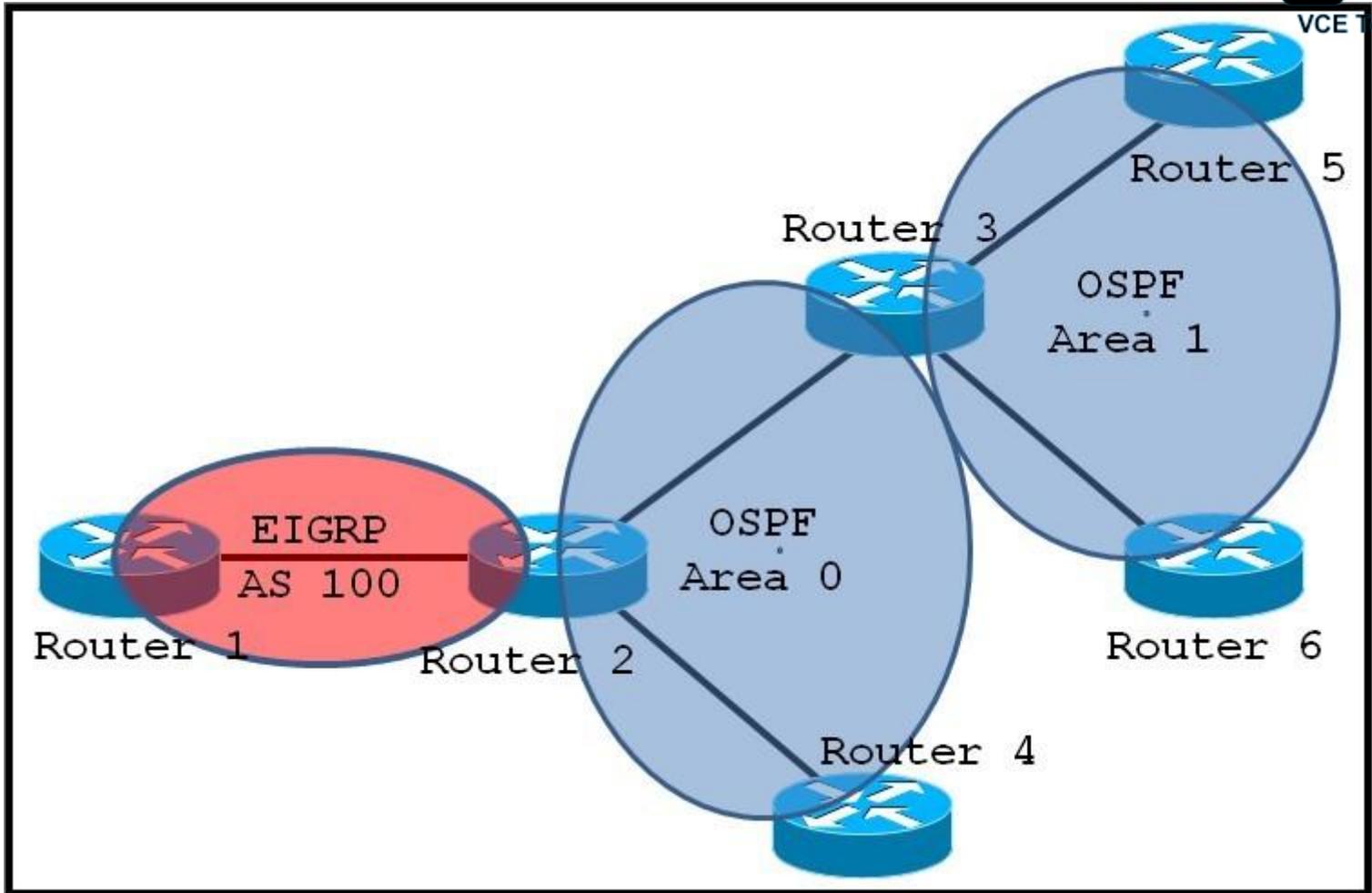
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25



Refer to the exhibit. On which router should you configure redistribution?

- A. Router 1
- B. Router 2
- C. Router 3
- D. Router 4
- E. Router 5

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26

Which three Cisco technologies can you use to detect and mitigate threats? (Choose three.)

- A. NetFlow
- B. FWSM
- C. ISE
- D. VRRP
- E. sFLOW

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27

Which technology allows remote networks to be connected via site-to-site tunnels?

- A. IPsec VPN
- B. AnyConnect VPN
- C. SSL VPN
- D. EasyConnect VPN

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28

Which RFC defines the IPv6 standard?

- A. RFC 1918
- B. RFC 2338
- C. RFC 2460
- D. RFC 2740

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29

What is the maximum RIPv2 hop count for a reachable route?

- A. 13
- B. 14
- C. 15
- D. 16

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30

Which Cisco Wireless LAN Controller interface is used for out-of-band management?

- A. service port
- B. management port
- C. controller port
- D. virtual port

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31

In which operation mode does the AP act as a dedicated sensor for location-based and intrusion detection services?

- A. monitor mode
- B. promiscuous mode
- C. discovery mode
- D. sniffer mode

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

Which HSRP parameters must match, to ensure proper functionality?

- A. group parameters
- B. priority parameters
- C. preempt parameters
- D. tracking parameters

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

What three primary sources of information are needed to perform a network audit? (Choose three.)

- A. existing documentation
- B. new documentation
- C. existing network management software
- D. new network management tools
- E. management personnel

F. technical personnel

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Which three layers comprise the traditional hierarchical model? (Choose three.)

- A. core layer
- B. distribution layer
- C. access layer
- D. aggregation layer
- E. network layer
- F. Internet layer

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

Which first-hop redundancy protocol dynamically distributes client traffic between multiple routers?

- A. HSRP
- B. VRRP
- C. GLBP
- D. IGRP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

Which three options are characteristics of data center evolution? (Choose three.)

- A. consolidation
- B. virtualization
- C. automation
- D. standardization
- E. optimization
- F. modulation

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Which option is a benefit of the modular approach to network design?

- A. higher availability
- B. repeatable scalability
- C. increased security
- D. improved resiliency

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Which statement describes the methodology that supports the Cisco Enterprise Architecture models?

- A. It divides the network into functional network modules.
- B. It divides the network into role-based network modules.
- C. It divides the network into regional network modules.
- D. It divides the network into operational network modules.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

Router A has three feasible successors to the 192.168.1.0/24 network, which are listed here:

Option 1 has a metric of 8123228.

Option 2 has a metric of 2195467.

Option 3 has a metric of 8803823.

The variance 4 command was issued on Router A. How many active entries does Router A have in its routing table for the 192.168.1.0/24 network?

- A. 0
- B. 1
- C. 2
- D. 3

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

What are the three modes of unicast reverse path forwarding? (Choose three.)

- A. strict
- B. loose
- C. VRF
- D. global
- E. PIM
- F. local

Correct Answer: ABC

Section: (none)

Explanation**Explanation/Reference:****QUESTION 41**

A network engineer has been asked to follow a top down design approach. What layer of the OSI model is used to start the design?

- A. physical
- B. network
- C. transport
- D. application

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:****QUESTION 42**

Where in the network hierarchy should network access control be performed?

- A. backbone
- B. core
- C. access
- D. distribution

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 43**

What two SAN protocols will allow a customer to utilize 10GbE for SAN access? (Choose two.)

- A. iSCSI
- B. FCoE

- C. SATA
- D. Fiber Channel
- E. AoE

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

Application servers require load balancing and security services. Where in the data center network should these services be provisioned?

- A. core
- B. aggregation
- C. Layer 3 access
- D. distribution

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

A data center is reaching its power and cooling capacity. What two virtualization technologies can address the problem by directly reducing the number of physical devices? (Choose two.)

- A. virtual switching systems
- B. virtual device contexts
- C. virtual servers
- D. virtual routing and forwarding
- E. virtual port channels
- F. virtual LANs

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference: