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Vendor: Cisco

Exam Code: 640-864

Exam Name: Designing for Cisco Internetwork Solutions

Version: Demo

QUESTION 1

Which consideration is the most important for the network designer when considering IP routing?

A. convergence
B. scalability
C. on-demand routing
D. redistribution

Correct Answer: A

QUESTION 2

You want to gather as much detail as possible during a network audit, to include data time stamping across a large number of interfaces, customized according to interface, with a minimal impact on the network devices themselves. Which tool would you use to meet these requirements?

A. RMON
B. SNMFV3
C. NetFlow
D. Cisco Discovery Protocol

Correct Answer: C

QUESTION 3

DataQuirk is a web-based medical transcription company for exotic-animal veterinarians. The company recently added a third ISP for international business. They are organizing the enterprise network into a fully operational Enterprise Edge. To which two modules will the three ISPs be directly related? (Choose two)

A. PSTN
B. E- Commerce
C. WAN/MAN
D. Edge Distribution
E. Internet Connectivity
F. Remote Access VPN

Correct Answer: BE

QUESTION 4
Which two of these practices are considered to be best practices when designing the access layer for the enterprise campus? (Choose two)

A. Implement all of the services (QoS, security, STP, and so on) in the access layer, offloading the work from the distribution and core layers.
B. Always use a Spanning Tree Protocol; preferred is Rapid PVST+.
C. Use automatic VLAN pruning to prune unused VLANs from trunked interface to avoid broadcast propagation.
D. Avoid wasted processing by disabling STP where loops are not possible.
E. Use VTP transparent mode to decrease the potential for operational error.

Correct Answer: BE

QUESTION 5
With deterministic Wireless LAN Controller redundancy design, the different options available to the designer have their own strengths. Which one of these statements 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 collocated 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

QUESTION 6
Which of these statements 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 shaping 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 address 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

QUESTION 7

Which one of these statements should the designer keep in mind when considering the advanced routing features?

A. One-way router redistribution avoids the requirement for state or default routes.
B. Redistribution, summarization, and filtering are most often applied between the campus core and enterprise edge.
C. Filtering only occurs on the routing domain boundary using redistribution.
D. Summarize routes at the core toward the distribution layer.
E. The hierarchical flexibility of IPv6 addressing avoids the requirement for routing traffic reduction using aggregation.

Correct Answer: B

QUESTION 8

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

QUESTION 9

Which IPv6 feature enables routing to distribute connection requests to the nearest content server?

A. Link-local
B. Site-local
C. Anycast
D. Multicast
E. Global aggregatable

Correct Answer: C

QUESTION 10

Which one of these statements is true about addressing redundancy within the WAN environment?

A. The reliability and speed of DSL allow for cost savings by not including redundant links.
B. CAMDM and dark fiber offer advanced redundancy features such as automatic backup and repair mechanism to cope system faults.
C. An SLA is one way to eliminate the need for redundancy.
D. The failure of a single SONET/SDH link or network element does not lead to failure of the entire network.

Correct Answer: D

QUESTION 11

Refer to the exhibit. Model A is the recommended design for routing between Building Distribution switches and Campus Core switches. Which two statements describe the reasons? (Choose two)
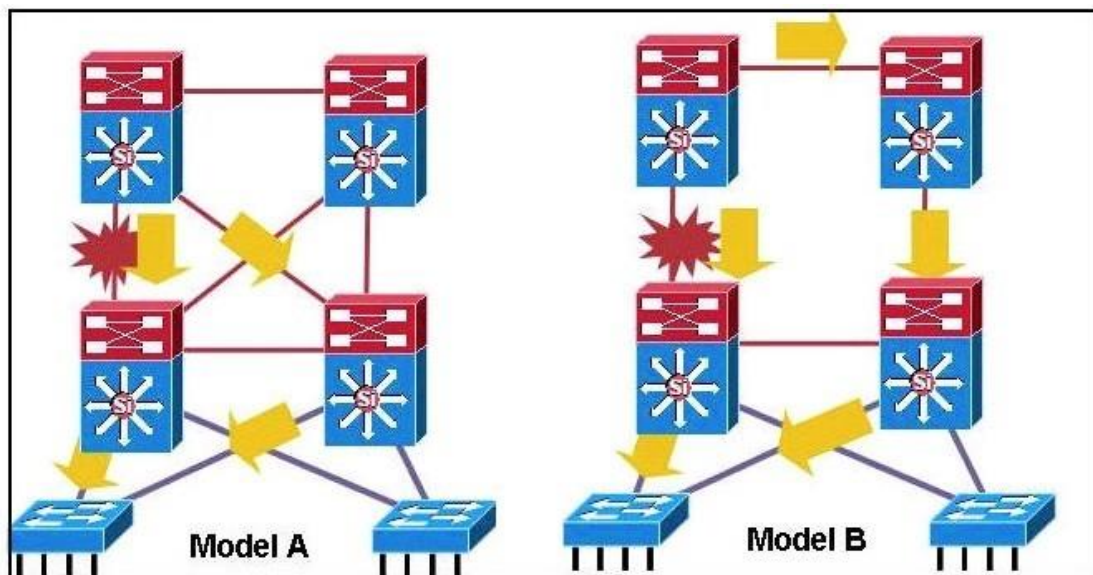
Model A / Model B

A. Model A uses timer-based non-deterministic convergence.
B. Mode A uses timer-based, providing fast convergence to the remaining path.
C. In Model A, a link or box failure does not require routing protocol convergence.
D. In Model A, the Layer 3 redundant equal cost links support fast convergence.

Correct Answer: CD

QUESTION 12

Which one of these statements is true concerning the enterprise data center?

A. It can be located either at the enterprise campus or at a remote branch.
B. Remote data center connectivity requirements align with the small office design.
C. The data center designs will differ substantially depending on whether the location is on campus or remote.
D. A remote branch with a data center becomes the enterprise campus.

Correct Answer: C

QUESTION 13

Which Cisco security management solution provides the means to identify, isolate, and counter security threats to the network?

A. Adaptive Security Device Manager
B. Intrusion Prevention Device Manager
C. Security Device Manager
D. Cisco Security Manager
E. Cisco Security Monitoring, Analysis, and Response System

Correct Answer: E

QUESTION 14

A global corporation has an internal network with the following characteristics:

- 2,000,000+ hosts
- 10,000 + routers
- Internal connectivity
- high traffic volumes with business partners and customers

Which statement best describes what a flexible IPv6 strategy would look like for this corporation?

A. Both hosts and routers would run dual stack
B. Hosts would run IPv4 and routers would run native IPv6
C. Hosts would run dual stack and routers would run IPv4 only
D. Hosts would run IPv6 and routers would run native IPv6

Correct Answer: A

QUESTION 15
Which of these is the best routing deployment for a single dedicated link to an ISP for Internet access?

A. EIGRP
B. RIP
C. BGP
D. Static
E. OSPF

Correct Answer: D

QUESTION 16
In terms of remote office design, which one of these statements is a characteristics only of a small remote office (up to 50 user), and not of medium or remote offices?

A. Link redundancy to access layer switches is not possible with an integrated design.
B. A collapsed access and distribution layer is required.
C. There are no loops in the network design.
D. Layer 3 services such as DHCP, firewall, and NAT are provided by enterprise campus.

Correct Answer: C

QUESTION 17
Which two statements about the data Center Aggregation layer are correct? (Choose two)

A. Layer 4 through layer 7 services are provided in that layer
B. STP should never be supported in that layer
C. That layer is the critical point for control and application services
D. Layer 2 connectivity is provided in that layer from the data center to the core

Correct Answer: AC

QUESTION 18
According to Cisco, which four improvements are the main benefits of the PPDIOO lifecycle approach to network design? (Choose four)

A. faster ROI
B. improved business agility
C. increased network availability
D. faster access to applications and services

E. lower total cost of network ownership
F. better implementation team engagement

Correct Answer: BCDE

QUESTION 19
With respect to IPv6 addressing, from a design perspective, which of these statements is it important to keep in mind?

A. IPv6 addressing provides convenience of anycast addressing without any configuration requirements.
B. IPv6 does not use multicast addressing.
C. An IPv6 router will not forward packets from one link to other links if the packet has either a link- local source or a link-local destination address.
D. Dynamic address assignment requires DHCPv6.

Correct Answer: C

QUESTION 20
When designing the infrastructure protection portion for the enterprise edge, which of these solutions would be the most appropriate solution to consider?

A. 802. IX
B. ACLs in the core layer
C. Cisco Security MARS
D. AAA

Correct Answer: D

QUESTION 21
What is 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
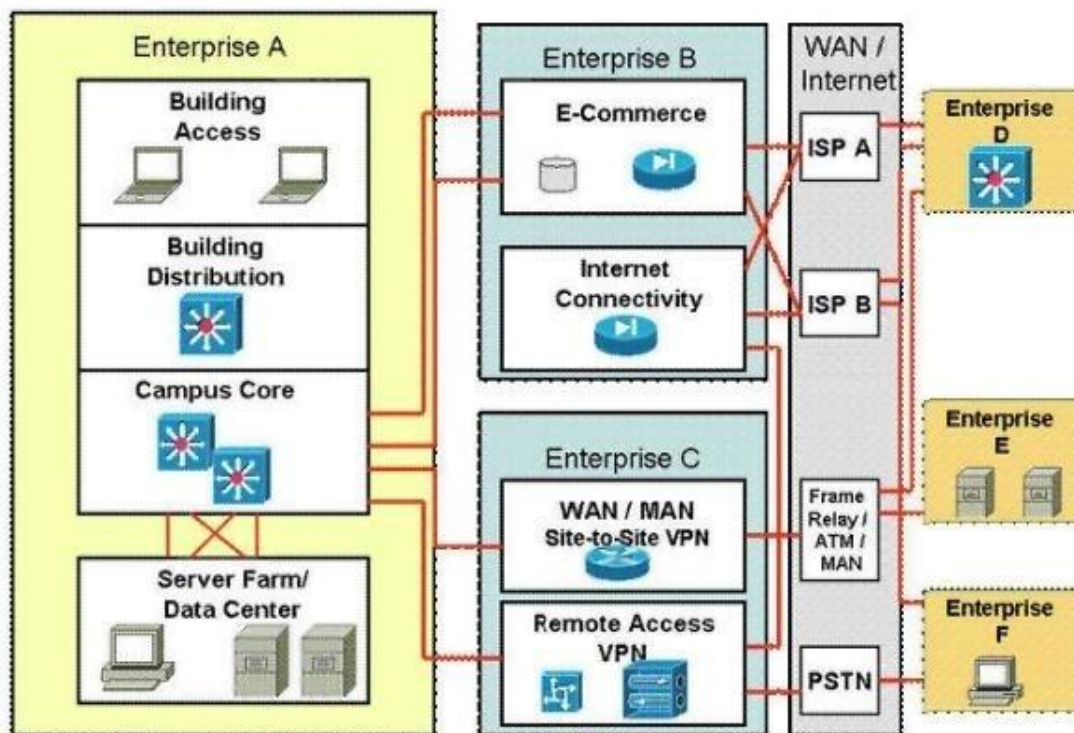
Correct Answer: A

QUESTION 22

Which two statements best describe an OSPF deployment? (Choose two)

A. ABR provides automatic classful network boundary summarization.
B. ABR requires manual configuration for classful network summarization
C. External routes are propagated into the autonomous system from stub areas via ASBR.
D. External routes are propagated into the autonomous system from regular areas or NSSA via ASBR.
E. External routes are propagated into the autonomous system from regular areas or NSSA via ABR.

Correct Answer: BD

QUESTION 23

Refer to the exhibit. Which module is the Enterprise WAN module?

A. Enterprise A
B. Enterprise B
C. Enterprise C
D. Enterprise D
E. Enterprise E
F. Enterprise F

Correct Answer: C

QUESTION 24

A large enterprise requires sensitive information be transmitted over a public infrastructure. It requires confidentiality, integrity, and authenticity. Which security solution best meets these requirements?

A. Cisco IOS Firewall
B. Intrusion Prevention
C. IPSec
D. AAA
E. Traffic Guard Protector
F. SECURE CONECTIVITY

Correct Answer: C

QUESTION 25

There are a number of advantages to using virtualization within the data center module. Which the following two are samples of these advantages?

A. Virtualization consolidates many low-performance devices into a few high-performance devices, providing a more efficient utilization of hardware and increasing the price/performance ratio.
B. Virtualization compartmentalizes a single device into a few high-performance devices, providing a more efficient utilization of hardware and increasing the price/performance ratio.
C. Dynamic forcibility eliminates the need to add, reassign, or repurpose resources in the system.
D. Virtualization separates user via different physical networks into groups with visibility into only their logical network.
E. Virtualization provides distinct security policies per physical device.

Correct Answer: AD

QUESTION 26

When selecting which hardware switches to use throughout an enterprise campus switched network, which consideration is not relevant?

A. whether data link layer switching based the MAC address is required
B. the number of shared media segments
C. which infrastructure service capabilities are required
D. whether to support Layer 3 services at the network edge.

Correct Answer: B

QUESTION 27

Layer 2 switching is exclusively used in which Enterprise Campus Module layer?

A. Server Farm
B. Campus Core
C. Building Access
D. Building Distribution
E. Internet Connectivity

Correct Answer: C

QUESTION 28

Which one of these statements describes why, from a design perspective, a managed VPN approach for enterprise teleworkers is a most effective?

A. A managed VPN solution uses a cost effective, on-demand VPN tunnel back to the enterprise
B. This solution supports all teleworkers who do not require voce or video
C. This architecture provides centralized management where the enterprise can apply security policies and push configurations.
D. It provides complete flexibility for remote access through a wireless hotspot or a guest network at a host, in addition to a home office.

Correct Answer: C

QUESTION 29

Which one of these statements is true when considering the design of voice and video services for the enterprise campus network?

A. Access layer switches should support 802.1Q trunking and 802.1p for Layer 2 CoS packet marking on Layer 2 ports with IP phones connected.
B. Combining voice and data and a single VLAN simplifies QoS trust boundaries, VLAN access control, and ease of management.
C. Data devices will also require access to priority queues via packet tagging.
D. Fixed network delays (serialization, propagation, and so on) are generally unpredictable and more difficult to calculate than variable network delays.

Correct Answer: A

QUESTION 30

Refer to the exhibit. Which two statements correctly identify the layers of the Enterprise Campus module? (Choose two)
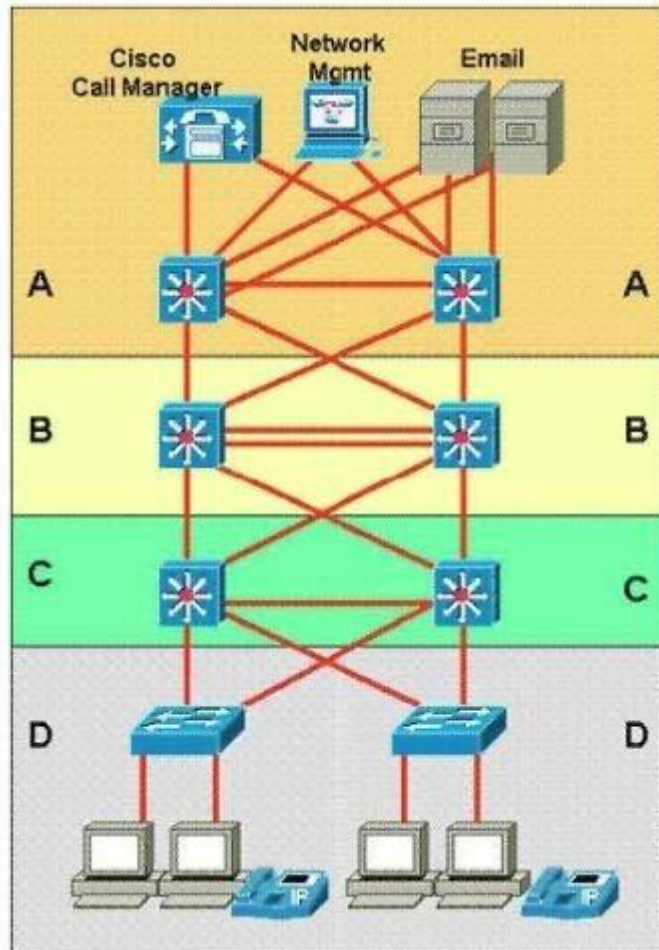

A. A is the Data Center Module and C is the Campus Core layer
B. A is the Data Center Module and D is the Building Access layer
C. B is the Campus Core layer and C is the Building Distribution layer
D. B is the Building Distribution layer and C is the Campus Core layer
E. A is the Internet Connectivity layer and B is the Campus Core layer
F. B is the Building Distribution layer and D is the Building Access layer

Correct Answer: BC

QUESTION 31

Refer to the exhibit. During which stage of the PPDIOO process are implementation procedures prepared?
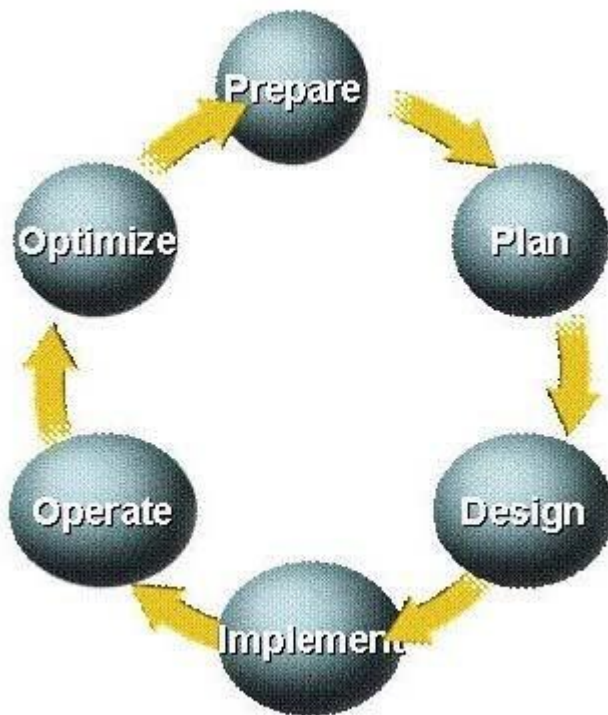
A. Prepare
B. Plan
C. Design
D. Implement
E. Operate
F. Optimize

Correct Answer: C

QUESTION 32

Which statement describes the recommended deployments of IPv4 addressing in the Cisco Network Architecture for the Enterprise?

A. private addressing throughout with public addressing in the Internet Connectivity module
B. private addressing throughout with public addressing in the Internet Connectivity and E-Commerce modules
C. private addressing throughout with public addressing in the Internet Connectivity, E-Commerce, and Remote Access and VPN modules
D. private addressing throughout with public addressing in the Internet Connectivity, E-Commerce, and Enterprise Branch modules

Correct Answer: C

QUESTION 33

For which network scenario is static routing most appropriate?

A. parallel WAN links
B. IPSec VPN
C. expanding networks
D. hierarchical routing

Correct Answer: B

QUESTION 34

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

A. Will the switches be required to provide inline power?
B. Will users need to make off site 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

QUESTION 35

Which aspect would most likely be found in the draft design document?

A. a list of QoS requirements
B. a note that there are no segments with more than 70 percent broadcast or multicast traffic
C. the level of redundancy or high availability that currently exists or is required in the network
D. the list of network infrastructure services which are in use, such as voice and video

Correct Answer: A

QUESTION 36

Your company's Cisco routers are operating with EIGRP. You need to join networks with an acquisition's heterogeneous routers at 3 sites, operating with EIGRP and OSPF. Which describes the best practice for routing protocol deployment?
A. apply OSPF throughout both networks
B. apply one-way redistribution exclusively at each location
C. apply two way redistribution exclusively at each location

D. apply two-way redistribution at each location with a route filter at only one location
E. apply two-way redistribution at each location with a route filter at each location
F. apply EIGRP with the same autonomous system throughout both networks

Correct Answer: E

QUESTION 37
When considering the enterprise campus design, which network application category most influences the network design?

A. peer-to-peer
B. client-local server
C. client-enterprise edge server
D. client-server farm

Correct Answer: D

QUESTION 38
Which two link state routing protocols support IPv6 routing? (Choose two)

A. BGP4+
B. OSPF
C. RIPng
D. EIGRP
E. IS-IS

Correct Answer: BE

QUESTION 39
When designing the wireless portion of an enterprise campus network, which one of these statements should serve as a strict guideline?

A. Wireless controllers should be distributed throughout the building distribution layers
B. Dynamic controller redundancy, where the access points attempt to join the least loaded controller, is a best-practice approach.
C. Wireless controllers should be centralized in the core layer
D. To improve the RF coverage, the controllers of any building should be put in the same mobility group.

Correct Answer: C

QUESTION 40

When designing using the Cisco Enterprise Architecture, in which Enterprise Campus layer does the remote Access and VPN module establish its connection?

A. Building Access
B. Campus Core
C. Enterprise Branch
D. Enterprise Data Center

Correct Answer: B

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350-018	642-467	ISS-001	SY0-301	1Z0-482	VCP510PSE	EX200
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