



200-310^{Q&As}

Designing for Cisco Internetwork Solutions

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QUESTION 1

Which two of these are the most accurate characteristics of EIGRP deployment? (Choose two.)

- A. Provides features for most Ethernet, Frame Relay, and dial-up network deployment types.
- B. Provides routing for IPv4, IPv6, Appletalk, and IPX.
- C. Provides default hierarchical routing and summarization of a VLSM IP address deployment.
- D. Provides quick convergence through neighbor relationships and topology backup routes.
- E. Provides the best route selection on combined default metrics of active bandwidth, delay, load, reliability, and MTU parameters.

Correct Answer: BD

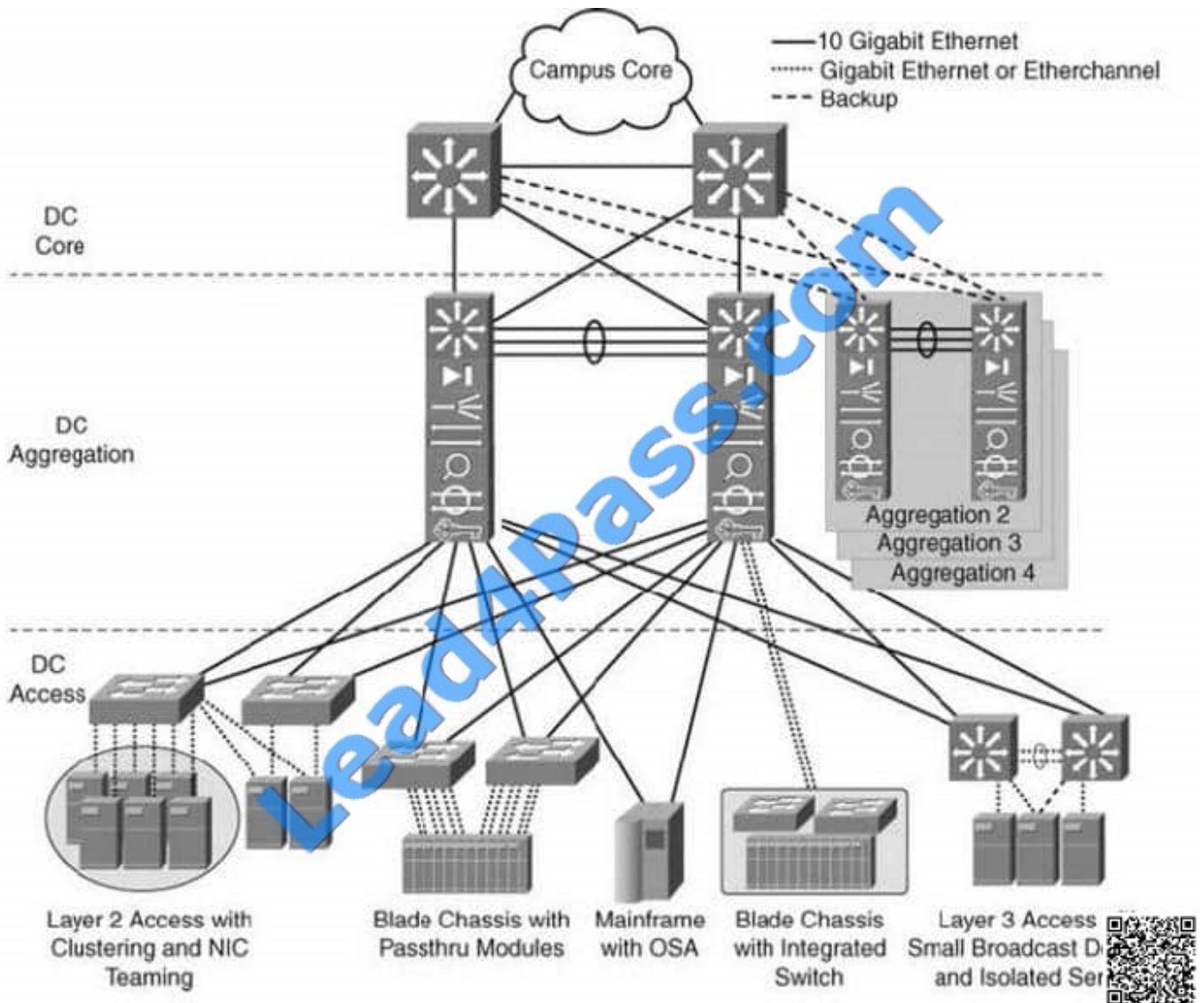
QUESTION 2

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

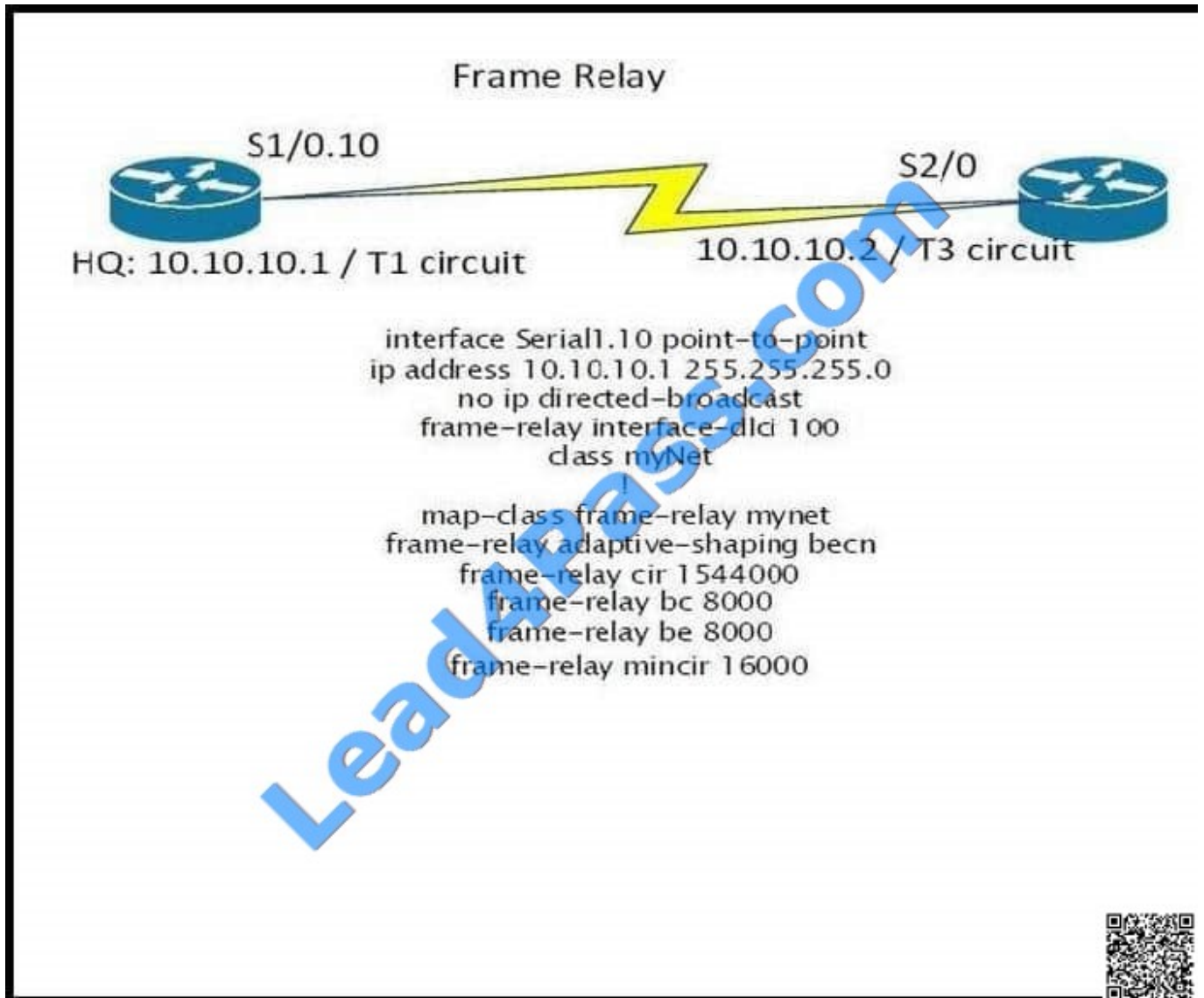
User access is primarily layer 2 in nature, layer 2 clustering is possible only in layer 2 Here is the Explanation: from the Cisco press CCDA certification guide Figure 4-8. Enterprise Data Center Infrastructure Overview



Defining the DC Access Layer The data center access layer's main purpose is to provide Layer 2 and Layer 3 physical port density for various servers in the data center. In addition, data center access layer switches provide high-performance, low-latency switching and can support a mix of oversubscription requirements. Both Layer 2 and Layer 3 access (also called routed access) designs are available, but most data center access layers are built using Layer 2 connectivity. The Layer 2 access design uses VLAN trunks upstream, which allows data center aggregation services to be shared across the same VLAN and across multiple switches. Other advantages of Layer 2 access are support for NIC teaming and server clustering that requires network connections to be Layer 2 adjacent or on the same VLAN with one another.

CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 4

QUESTION 3



Refer to the exhibit. A network engineer at a technical call center receives a call from a customer complaining that only 56 kbps of data can be transferred over the T1 Frame Relay WAN circuit at a remote site. The engineer checks the Frame Relay switch and confirms that only 56 kbps is being transferred over the circuit. The engineer requests the router configuration of the customer headquarters site router. What is causing this issue to occur?

- A. The wrong CIR is configured.
- B. The BECN configuration is causing this issue.
- C. The class name is spelled wrong under the interface.
- D. The wrong DLCI number is assigned to the interface.

Correct Answer: C

QUESTION 4

In Cisco ACI, which option is the unified point of automation, management, monitoring and programmable?



- A. Python
- B. REST
- C. APIC
- D. Postman

Correct Answer: C

QUESTION 5

What access policies to set up for remote VPN access (Choose three)?

- A. Admins are centrally authenticated with full network access
- B. Partners are centrally authenticated with access limited by use of ACLs
- C. Employees are centrally authenticated with access limited by use of ACLs
- D. Admins are locally authenticated with full network access
- E. Partners are centrally authenticated with full access
- F. Employees are centrally authenticated with full access

Correct Answer: ABC

QUESTION 6

Which IGP protocol is a common choice to EIGRP and OSPF as a routing protocol for large networks?

- A. RIPv2
- B. IS-IS
- C. IGRP
- D. OSPFv2

Correct Answer: B

QUESTION 7

A remote worker for a sales company must submit daily updates via the company email system. The employee does not have a company-issued laptop, so which VPN method is used for connectivity to the company email server?

- A. DMVPN



- B. SSL VPN
- C. IPsec VPN
- D. GET VPN

Correct Answer: B

QUESTION 8

While designing a remote access VPN, a customer has requested three different levels of access to be granted for administrators, employees, and partners. Which three access policies must be configured for the three groups? (Choose three.)

- A. Partners are centrally authenticated with limited network access controlled with ACLs.
- B. Administrative users have local credentials with full access to the internal infrastructure.
- C. Administrative users are centrally authenticated with full access to the internal infrastructure.
- D. Employees are centrally authenticated with limited network access controlled with ACLs.
- E. Employees are centrally authenticated with full access to the internal infrastructure.
- F. Partners are centrally authenticated with full access to the internal infrastructure.

Correct Answer: ACD

QUESTION 9

Which IETF standard technology can be used with data center design to readily scale server virtualization?

- A. Transparent Interconnection of Lots of Links
- B. OTV
- C. vPC
- D. FCoE

Correct Answer: A

QUESTION 10

A remote user for a company must periodically connect to the company network to access internal resources using a company laptop with software that was preinstalled by the IT department. Which VPN method is used for connectivity?

- A. DMVPN
- B. SSL VPN



C. IPsec VPN

D. GET VPN

Correct Answer: C

QUESTION 11

What does ODR stand for?

A. Open default routing

B. Optical demand routing

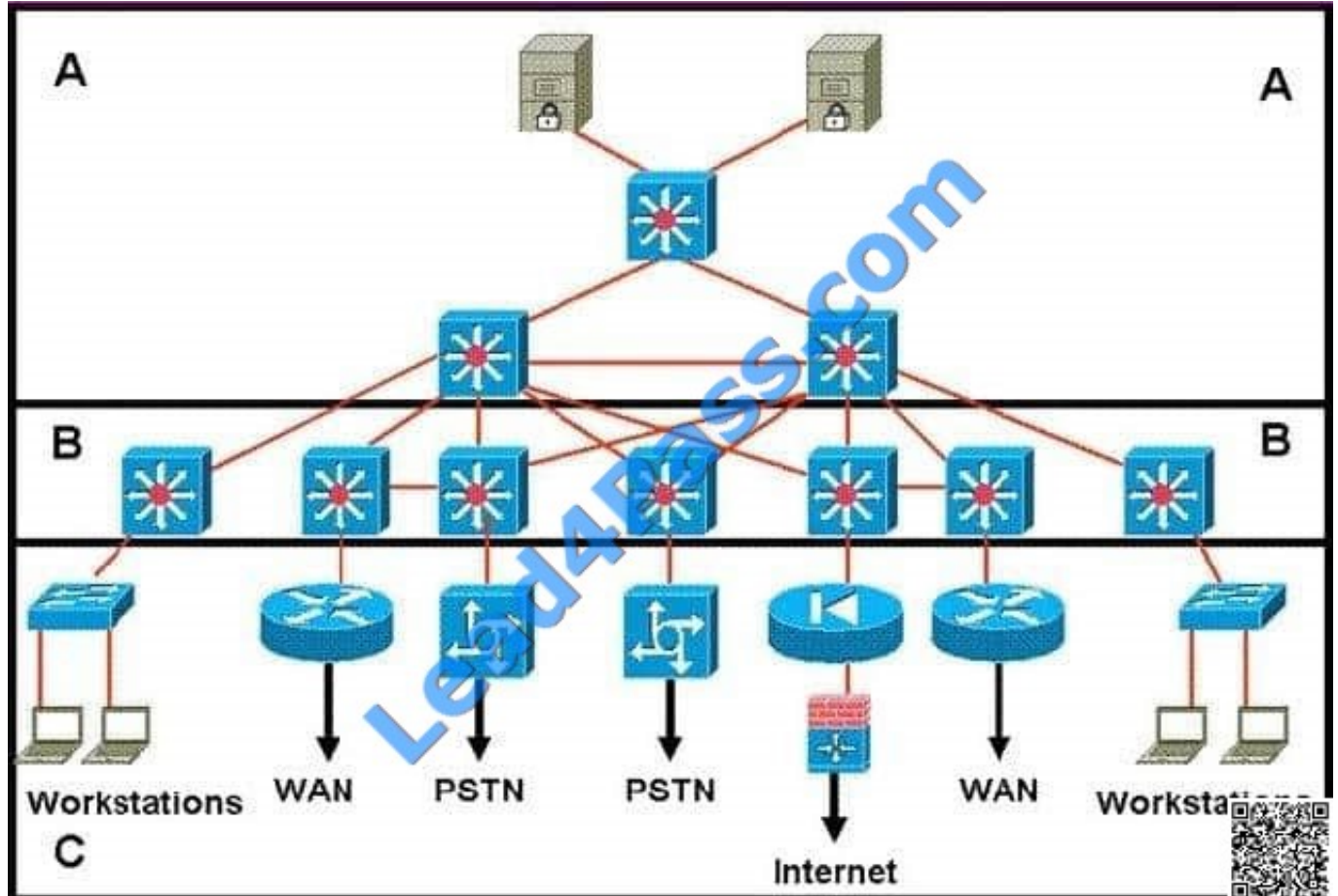
C. Open dedicated routing

D. On-demand routing

Correct Answer: D

QUESTION 12

Refer to the exhibit.





Which layer is the distribution layer?

- A. Layer A
- B. Layer B
- C. Layer C
- D. Layers A and B form a consolidated core and distribution layer

Correct Answer: B

QUESTION 13

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

QUESTION 14

Your company uses OSPF for internal routing. The company will be connected to VendorA via a single dedicated link and to VendorB via redundant dedicated links. Both vendors also use OSPF for internal routing.

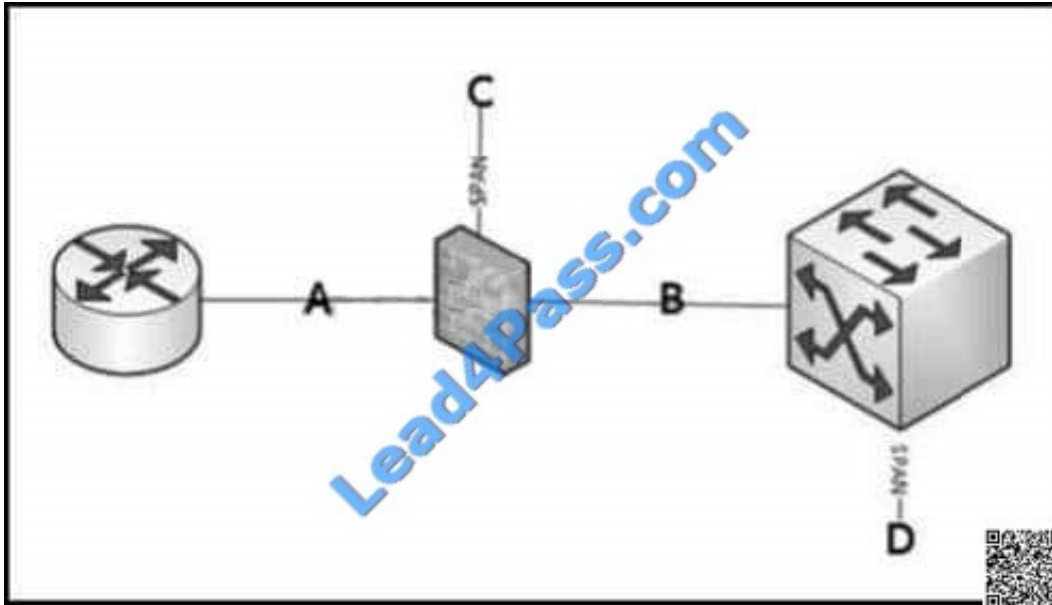
Which of the following deployments describes the best intra-domain routing practice in this situation?

- A. Connect your company to both VendorA and VendorB using existing OSPF.
- B. Redistribute the routes on each link between your company and the vendors to a shared EIGRP routing protocol.
- C. Use IBGP to reach VendorA and EBGP to reach VendorB.
- D. Use static routes to reach VendorA and EBGP to reach VendorB.
- E. Use static routes to reach both VendorA and VendorB.

Correct Answer: D

QUESTION 15

What is the best point to deploy the IPS, not to have false positives, since the traffic is already filtered?



- A. Inline before the firewall
- B. Inline after the firewall
- C. Passive of the firewall
- D. Passive of the Switch

Correct Answer: D

Reference:

<https://supportforums.cisco.com/t5/intrusion-prevention-systems-ids/correct-placement-of-ids-ips-in-network-architecture/td-p/2632437>

QUESTION 16

Which three are features of LWAPP? (Choose three.)

- A. firmware synchronization
- B. local management of APs
- C. configuration changes manually synced
- D. encryption of control channel
- E. configuration data only on the WLC
- F. wireless control free operation
- G. replaces 802.1x for authentication in wireless connections

Correct Answer: ADE



QUESTION 17

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

QUESTION 18

Which two options should be used to achieve fast convergence in an OSPF network? (Choose two.)

A. Bidirectional Forwarding Detection

B. fast hellos

C. LSA retransmission interval

D. SPF throttle timers

E. LSA group pacing

Correct Answer: AB

QUESTION 19

Which statement describes the recommended deployment of DNS and DHCP servers in the Cisco Network Architecture for the Enterprise?

A. Place the DHCP and DNS servers in the Enterprise Campus Access layer and Enterprise branch.

B. Place the DHCP and DNS servers in the Enterprise Campus Server Farm layer and Enterprise branch.

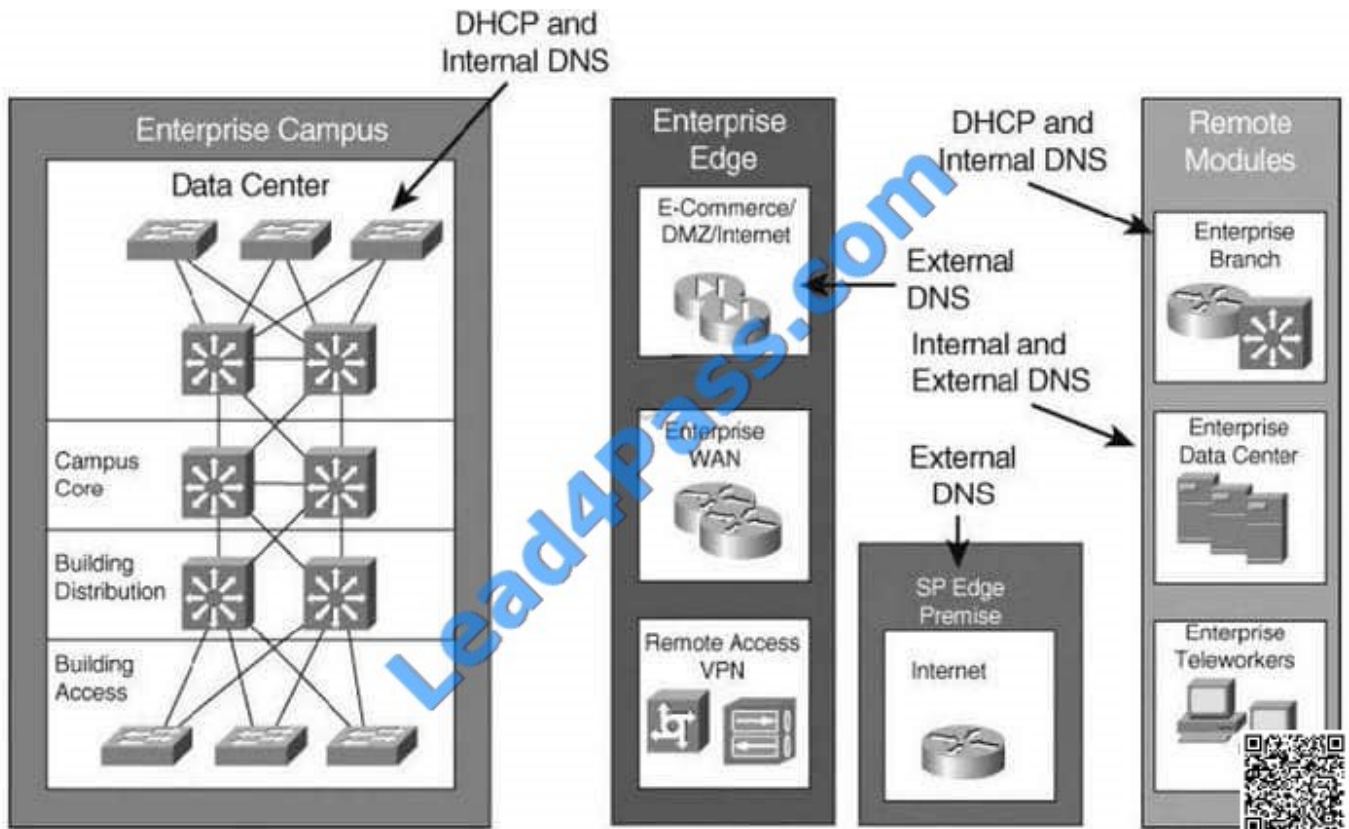
C. Place the DHCP server in the Enterprise Campus Core layer and Remote Access_VPN module with the DNS server in the Internet Connectivity module.



D. Place the DHCP server in the Enterprise Campus Distribution layer with the DNS server in the Internet Connectivity module.

Correct Answer: B

For the Enterprise Campus, DHCP and internal DNS servers should be located in the Server Farm and they should be redundant. External DNS servers can be placed redundantly at the service provider facility and at the Enterprise branch.



QUESTION 20

Which three of these are layers in the Cisco SONA Architecture? (Choose three.)

- A. Applications
- B. Physical Infrastructure
- C. Presentation
- D. Integrated Transport
- E. Core Common Services
- F. Networked Infrastructure

Correct Answer: ABE



QUESTION 21

Which three service categories are supported by an ISR? (Choose three.)

- A. voice
- B. security
- C. data
- D. Internet
- E. storage
- F. satellite

Correct Answer: ABC

QUESTION 22

Which two benefits are realized by establishing virtualization in a campus network? (Choose two.)

- A. enables path isolation
- B. enhances network agility
- C. consolidates applications
- D. enables unlimited scalability
- E. reduces network bandwidth

Correct Answer: AB

QUESTION 23

Which two statements about the Enterprise Data Center Aggregation submodule are correct? (Choose two.)

- A. it provides Layer 4-7 services
- B. it should never support STP
- C. it is the critical point for control and application services
- D. it typically provides Layer 2 connectivity from the data center to the core

Correct Answer: AC

QUESTION 24

Which three are considered as technical constraints when identifying network requirements? (Choose three.)



- A. support for legacy applications
- B. bandwidth support for new applications
- C. limited budget allocation
- D. policy limitations
- E. limited support staff to complete assessment
- F. support for existing legacy equipment
- G. limited timeframe to implement

Correct Answer: ABF

Network design might be constrained by parameters that limit the solution. Legacy applications might still exist that must be supported going forward, and these applications might require a legacy protocol that may limit a design. Technical

constraints include the following:

Existing wiring does not support new technology.

Bandwidth might not support new applications.

The network must support exiting legacy equipment.

Legacy applications must be supported (application compatibility).

QUESTION 25

What phase of Cisco's PPDIIO includes the identification and resolution of issues prior to moving the entire network to production?

- A. Optimize
- B. Operate
- C. Implementation
- D. Design

Correct Answer: A

QUESTION 26

Which type of router connects to two different OSPF areas?

- A. Area border
- B. Autonomous system boundary
- C. Backbone



D. Internal

Correct Answer: A

QUESTION 27

The first phase of PPDI/OO entails identifying customer requirements. Drag the example on the left to the associated requirement on the right.

Select and Place:

Budget	Identify existing and planned network applications
Email and HTTP	Identify existing and planned network services
Application compatibility	Define organizational constraints
IP telephony and video	Define the technical goals
Security	Define the technical constraints

Correct Answer:

	Email and HTTP
	IP telephony and video
	Budget
	Security
	Application compatibility

QUESTION 28

Which H.323 protocol monitors calls for factors such as packet counts, packet loss, and arrival jitter?

- A. H.225
- B. H.245
- C. RAS
- D. RTCP

Correct Answer: D

QUESTION 29



A network engineer requires that an OSPF ASBR must only flood external LSAs only within its own area. What OSPF area type should be configured?

- A. Backbone Area
- B. Totally Stub Area
- C. Not So Stubby Area
- D. Stub Area

Correct Answer: C

QUESTION 30

Developing a network design according to layers such as core and distribution is an example of which type of design methodology?

- A. Flat design
- B. Top-down
- C. Hierarchical structured design
- D. PDIOO

Correct Answer: C

QUESTION 31

What are three valid methods of gathering information about an existing data network? (Choose three.)

- A. Use organizational input.
- B. Perform a traffic analysis.
- C. Analyze the user-mapping of a running application.
- D. Perform a packet-level audit to verify carrier service guarantees.
- E. Perform a network audit to gather more detail about the network.
- F. Use reports that analyze the metrics of the customer's existing network.

Correct Answer: ABE

QUESTION 32

Which type of structure consists of the addressing, routing protocols, QoS, and security components?

- A. logical



- B. physical
- C. layered
- D. virtual

Correct Answer: A

QUESTION 33

Which network access control technology is recommended to use with Layer 2 access layer switches?

- A. 802.1q
- B. 802.1x
- C. 802.3af
- D. 802.3q
- E. 802.11n

Correct Answer: B

QUESTION 34

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

QUESTION 35

What query should you make if you want to find all objects of a particular type in an MIT tree?

- A. mid-tree-level
- B. class-level
- C. object-level
- D. tree-level



Correct Answer: B

QUESTION 36

How many more bits does IPv6 use for addresses than IPv4?

- A. 32
- B. 64
- C. 96
- D. 128

Correct Answer: C

QUESTION 37

The enterprise campus core layer has requirements that are unique from the distribution and access layers. Which of the following is true about the core layer?

- A. The core layer provides convergence using Layer 2 and Layer 3 services and features.
- B. The core layer provides high availability to support the distribution layer connections to the enterprise edge.
- C. The campus core layer is optional.
- D. The core layer requires high performance to manage the traffic policing across the backbone.

Correct Answer: B

QUESTION 38

Which statement about using STP in a redundant-link scenario is true?

- A. It uses only one redundant link at any one time.
- B. It bonds the two links and treats them as one link.
- C. It provides the most efficient use of redundant links.
- D. It balances traffic by transmitting packets on alternating links.

Correct Answer: A

QUESTION 39

Which protocol is the recommended first-hop redundancy protocol for an existing infrastructure that contains multiple vendors and platforms?



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

Correct Answer: B

QUESTION 40

A network engineer is using the traditional switched hierarchical design. The client has asked to increase uplink utilization from the access layer to the distribution. How can the engineer attain this new requirement without adding new physical connections?

- A. enable spanning-tree portfast
- B. enable VSS at the distribution layer
- C. increase the MTU size on the uplink interfaces
- D. ensure the root bridge priority is equal on both distribution switches

Correct Answer: B

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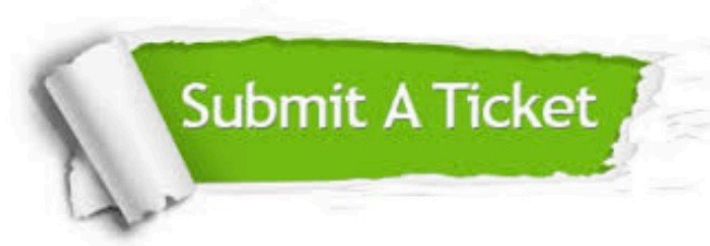
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