

**640-864.v12.99**

Number: 640-864  
Passing Score: 800  
Time Limit: 120 min  
File Version: 12.99



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**Vendor:** Cisco

**Exam Code:** 640-864

**Exam Name:** CCDA - Designing for Cisco Internetwork Solutions (DESGN)

**Version:** 12.99

**PS: PASSED THE EXAM TODAY WITH 100%, THANKS.**

## Exam A

### 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

**Section:** (none)

**Explanation**

### 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. SNMPV3
- C. NetFlow
- D. Cisco Discovery Protocol

**Correct Answer:** C

**Section:** (none)

**Explanation**

### 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

**Section:** (none)

**Explanation**

### 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 "First Test, First Pass" -  
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**Correct Answer:** BE

**Section:** (none)

**Explanation**

#### 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

**Section:** (none)

**Explanation**

#### QUESTION 6

Which of these statements is true concerning the data center access layer design?



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- 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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**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:** E

**Section:** (none)

**Explanation**

**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 "First Test, First Pass" - [www.lead2pass.com](http://www.lead2pass.com)  
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- 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**

**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

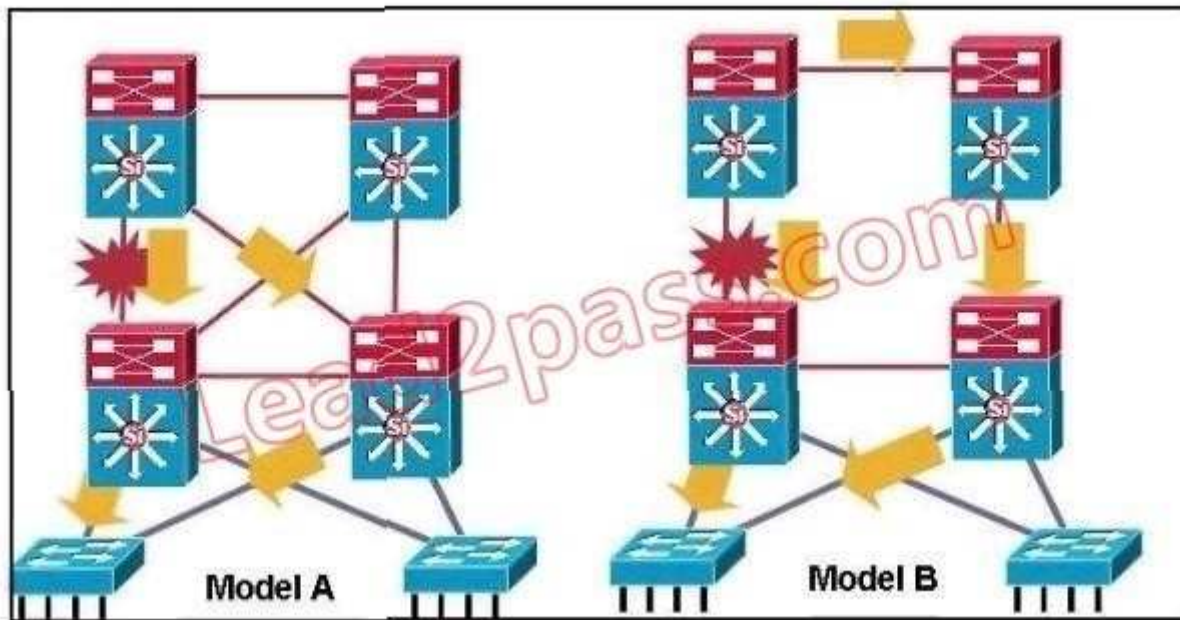
**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 10**

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)



- A. Model A uses timer-based non-deterministic convergence.
- B. Model 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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### QUESTION 11

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

**Section:** (none)

**Explanation**

#### 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  
**Section:** (none)  
**Explanation**

**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  
**Section:** (none)  
**Explanation**

**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
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**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**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  
**Section:** (none)  
**Explanation**

**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:** B

**Section:** (none)

**Explanation**

**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

**Section:** (none)

**Explanation**

**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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**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

**Section:** (none)

**Explanation**

#### 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. 802.1X
- B. ACLs in the core layer
- C. Cisco Security MARS
- D. AAA

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### 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

**Section:** (none)

**Explanation**

#### QUESTION 22

Drag and Drop Question

Drag the characteristics of the traditional campus network on the left to the most appropriate hierarchical network layer on the right.

	Access
high level of availability, scalability and fast convergence	
enforces policy within the network	
routing boundary (dynamic, summarization, static)	Distribution
provide security, QoS, and IP multicast to network	
provides a limited set of services	Core
the most feature-rich parts of the campus network	



A.

- high level of availability, scalability and fast convergence
- enforces policy within the network
- routing boundary (dynamic, summarization, static)
- provide security, QoS, and IP multicast to network
- provides a limited set of services
- the most feature-rich parts of the campus network

- Access**
  - provide security, QoS, and IP multic
  - the most feature-rich parts of the ca
- Distribution**
  - enforces policy within the ne
  - routing boundary (dynamic, summar
- Core**
  - high level of availability, scalability and
  - provides a limited set of ser

**Correct Answer:** A

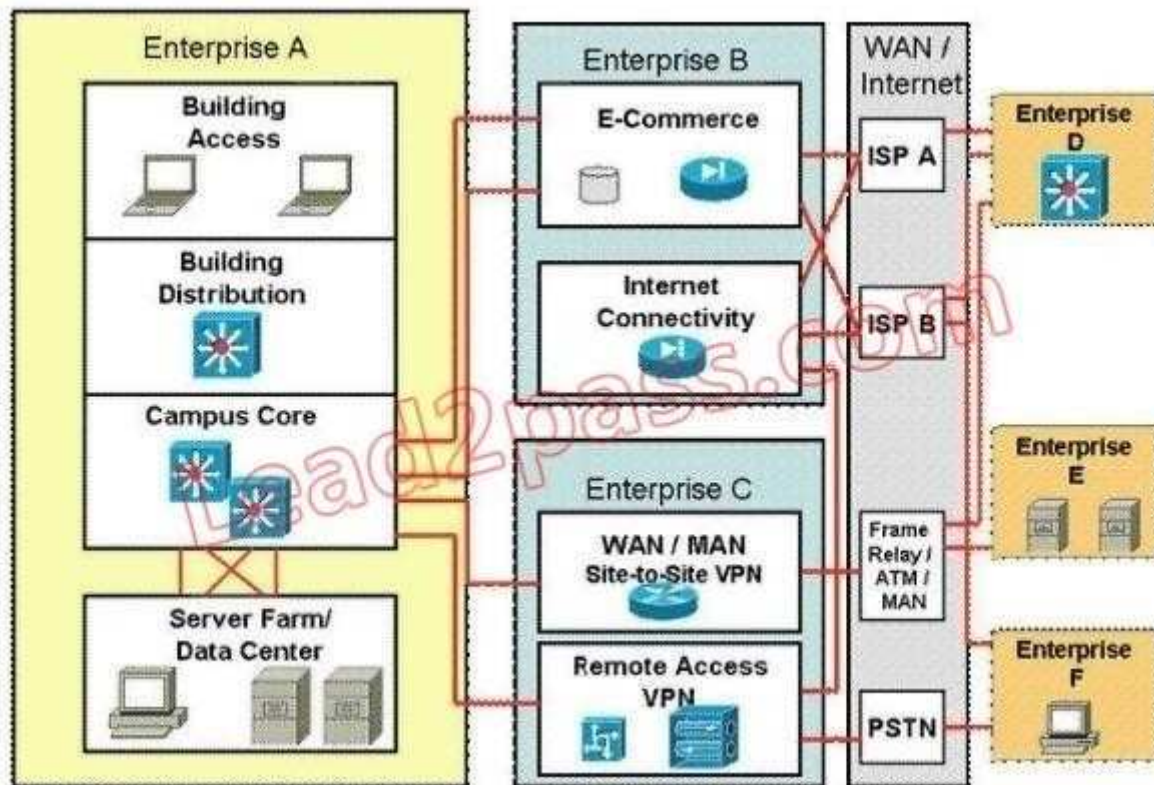
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### 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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### QUESTION 24

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

**Section:** (none)

**Explanation**

**QUESTION 25**

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

**Section:** (none)

**Explanation**

**QUESTION 26**

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:** AB

**Section:** (none)

**Explanation**

**QUESTION 27**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 28**

Drag and Drop Question

Drag the WAN technology on the left to the most appropriate category on the right.

	Leased
Frame-Relay	
TDM	
SONET	Shared
MPLS	

A.

Drag the WAN technology on the left to the most appropriate category on the right.

	Leased
Frame-Relay	TDM
TDM	SONET
SONET	Shared
MPLS	Frame-Relay
	MPLS

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 29

Drag and Drop Question

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Drag the data center properly on the left to the design aspect on the right it is most apt to affect.

variable of computing load, computing power and memory requirements

disasters, fire suppression and alarm systems

abundant, variable, well organized and easy to maintain

amount of racks, equipment, cabling, people

arrange equipment racks face-to-face or back-to-back

rack servers vs blade serves

Space

Weight Load

Power

Cooling

Cabling

Security

A.

Drag the data center properly on the left to the design aspect on the right it is most apt to affect.

variable of computing load, computing power and memory requirements

disasters, fire suppression and alarm systems

abundant, variable, well organized and easy to maintain

amount of racks, equipment, cabling, people

arrange equipment racks face-to-face or back-to-back

rack servers vs blade serves

amount of racks, equipment, cabling, people

variable of computing load, computing power and memory requirements

rack servers vs blade serves

arrange equipment racks face-to-face or back-to-back

abundant, variable, well organized and easy to maintain

disasters, fire suppression and alarm systems

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

### QUESTION 30

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**

**Section: (none)**

**Explanation**

**QUESTION 31**

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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 voice 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**

**Section: (none)**

**Explanation**

**QUESTION 32**

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**

**Section: (none)**

**Explanation**

**QUESTION 33**

Drag and Drop Question

Drag the WAN characteristics on the left to the branch office model where it would most likely be used on the right.

	Small Office
Redundant devices	
MPLS Deployment model	
Redundant Links	Medium Office
Redundant Links and Devices	
Private WAN deployment	Large Office
Internet Deployment Model	

A.

Drag the WAN characteristics on the left to the branch office model where it would most likely be used on the right.

	Small Office
Redundant devices	Redundant Links
MPLS Deployment model	Internet Deployment Model
Redundant Links	Medium Office
Redundant Links and Devices	Redundant devices
Private WAN deployment	Private WAN deployment
Internet Deployment Model	Large Office
	Redundant Links and Devices
	MPLS Deployment model

Correct Answer: A

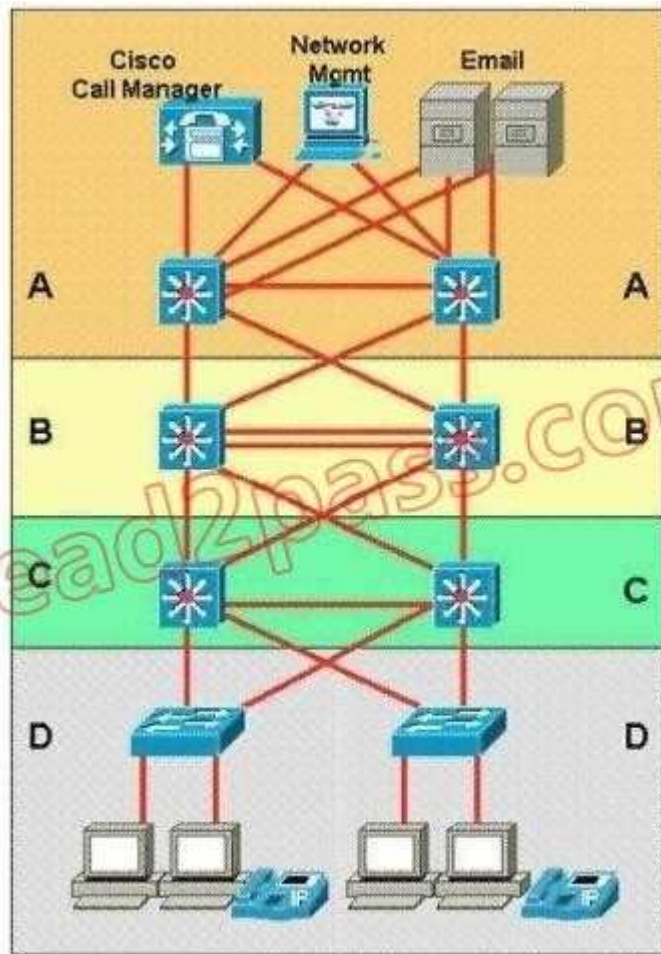
Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 34

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

**Section:** (none)

**Explanation**

### QUESTION 35

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  
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**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 36

Drag and Drop Question

Drag the security provision on the left to the appropriate Network module on the right.

	Access
Protect the endpoints using network-based intrusion prevention.	
Filter and rate-limit control plane traffic.	
Protect against inadvertent loops.	
Does not perform security functions to mitigate transit threats.	
Protect the infrastructure using NFP best practices.	
Protect network services including DHCP, ARP, and IP spoofing protection.	

A.

Drag the security provision on the left to the appropriate Network module on the right.

	Access
Protect the endpoints using network-based intrusion prevention.	Protect the endpoints using network-based intrusion prevention.
Filter and rate-limit control plane traffic.	Protect against inadvertent loops.
Protect against inadvertent loops.	Filter and rate-limit control plane traffic.
Does not perform security functions to mitigate transit threats.	Protect network services including DHCP, ARP, and IP spoofing protection.
Protect the infrastructure using NFP best practices	
Protect network services including DHCP, ARP, and IP spoofing protection.	

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

### QUESTION 37

Drag and Drop Question

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Drag the technology on the left to the type of enterprise virtualization where it is most likely to be found on the right.

	Network Virtualization
ASA firewall context	
IPS	
vPC	
VLAN	
VDC	
VRF	

	Device Virtualization

A.

Drag the technology on the left to the type of enterprise virtualization where it is most likely to be found on the right.

	Network Virtualization
ASA firewall context	vPC
IPS	VLAN
vPC	VRF
VLAN	
VDC	
VRF	

	Device Virtualization
	ASA firewall context
	IPS
	VDC

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 38**

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  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

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**QUESTION 39**

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**

**Section: (none)**

**Explanation**

#### **QUESTION 40**

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**

**Section: (none)**

**Explanation**

#### **QUESTION 41**

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

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- 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: C**

**Section: (none)**

**Explanation**

#### **QUESTION 42**

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**

**Section: (none)**

**Explanation**

#### **QUESTION 43**

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

**Section:** (none)

**Explanation**

#### **QUESTION 44**

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

- A. BGP4+
- B. OSPF
- C. RIPv6
- D. EIGRP
- E. IS-IS

**Correct Answer:** BE

**Section:** (none)

**Explanation**

#### **QUESTION 45**

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, "First Test, First Pass" - [www.lead2pass.com](http://www.lead2pass.com) 20 Cisco 640-864 Exam 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

**Section:** (none)

**Explanation**

#### **QUESTION 46**

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

**Section:** (none)

## Explanation

### QUESTION 47

Which one of these statements is an example of how trust and identity management solutions should be deployed in the enterprise campus network?

- A. Authentication validation should be deployed as close to the data center as possible.
- B. Use the principle of top-down privilege, which means that each subject should have the privileges that are necessary to perform their defined tasks, as well as all the tasks for those roles below them.
- C. Mixed ACL rules, using combinations of specific sources and destinations, should be applied as close to the source as possible.
- D. For ease of management, practice defense in isolation security mechanisms should be in place one time, in one place.

**Correct Answer: C**

**Section: (none)**

## Explanation

### QUESTION 48

Which of these is the equation used to derive a 64 Kbps bit rate?

- A.  $2 \times 8 \text{ kHz} \times 4\text{-bit code words}$
- B.  $8 \text{ kHz} \times 8\text{-bit code words}$
- C.  $2 \times 4\text{-bit code words} \times 8 \text{ kHz}$
- D.  $2 \times 4 \text{ kHz} \times 8\text{-bit code words}$

**Correct Answer: D**

**Section: (none)**

## Explanation

### QUESTION 49

Which one of these statements best describes the challenge of the designer when dealing with IP routing?

- A. OSPF supports fast convergence does not require periodic routing table updates, so the optional network design is best simplified with the network as a single backbone area.
- B. Manual summarization is limited to ABRs and ASBRs, therefore the designer must pay strict attention to the EIGRP topology.  
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- C. EIGRP, as a proprietary protocol, has special challenges when dealing with networks deployed with IPv6.
- D. Effective scalability with OSPF requires the designer to pay strict attention to the hierarchical network structure, localizing topology changes.

**Correct Answer: D**

**Section: (none)**

## Explanation

### QUESTION 50

When designing the identity and access control portions for the enterprise campus network, which of these solutions would be the most appropriate solution to consider?

- A. 802.1x

- B. ACLs in the core layer
- C. Cisco Security MARS
- D. NetFlow

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 51**

Which three terms describe the primary functions of the distribution layer of the campus network design hierarchy? (Chose three)

- A. provides end-user connectivity
- B. provides high speed transport
- C. provides QoS services
- D. enforces security policies
- E. provides WAN connection
- F. connects access devices to the core backbone

**Correct Answer:** CDF

**Section:** (none)

**Explanation**

#### **QUESTION 52**

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

**Section:** (none)

**Explanation**

#### **QUESTION 53**

Drag and Drop Question

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Drag the network function on the left to the functional area or module where it is most likely to be performed in the enterprise campus infrastructure on the right.

aggregates connectivity to voice, video, and data outside the enterprise with QoS and security

provides internal users with external HTTP, FTP, SMTP, and DNS connectivity

enables service-oriented architectures, virtualization, and secure computing with load balancing, redundancy

enables intelligent route and switch, high availability resilient multilayer design and integrated security

supports application traffic through the internet, initiated outside the enterprise network

terminates traffic that us forwarded by the internet connectivity module

Enterprise Campus

Enterprise Edge

E-Commerce

Internet Connectivity

Remote Access and VPN

Data Center

A.

Drag the network function on the left to the functional area or module where it is most likely to be performed in the enterprise campus infrastructure on the right.

aggregates connectivity to voice, video, and data outside the enterprise with QoS and security

provides internal users with external HTTP, FTP, SMTP, and DNS connectivity

enables service-oriented architectures, virtualization, and secure computing with load balancing, redundancy

enables intelligent route and switch, high availability resilient multilayer design and integrated security

supports application traffic through the internet, initiated outside the enterprise network

terminates traffic that us forwarded by the internet connectivity module

enables intelligent route and switch, high availability resilient multilayer design and integrated security

aggregates connectivity to voice, video, and data outside the enterprise with QoS and security

supports application traffic through the internet, initiated outside the enterprise network

provides internal users with external HTTP, FTP, SMTP, and DNS connectivity

terminates traffic that us forwarded by the internet connectivity module

enables service-oriented architectures, virtualization, and secure computing with load balancing, redundancy

Correct Answer:  
Section: (none)  
Explanation



**Explanation/Reference:**

**QUESTION 54**

Which codec does Cisco recommend for WAN link?

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- A. G.711
- B. G.723
- C. G.728
- D. G.729

**Correct Answer: D**

**Section: (none)**

**Explanation**

**QUESTION 55**

Drag and Drop Question

Drag the network characteristic on the left to the design method on the right which will best ensure redundancy at the building distribution layer.

Support Layer 2 VLANs spanning multiple access layer switches across the distribution switches

Convergence (FHRP) is not an issue

FHRP for convergence, no VLANs span between access layer switches across the distribution switches

Layer 2 between distribution and access layers, with a Layer 3 link between the distribution switches

Layer 2 between distribution and access layers, with a Layer 2 link between the distribution switches

VSS

A.

Drag the network characteristic on the left to the design method on the right which will best ensure redundancy at the building distribution layer.

Support Layer 2 VLANs spanning multiple access layer switches across the distribution switches	Support Layer 2 VLANs spanning multiple access layer switches across the distribution switches
Convergence (FHRP) is not an issue	FHRP for convergence, no VLANs span between access layer switches across the distribution switches
FHRP for convergence, no VLANs span between access layer switches across the distribution switches	Convergence (FHRP) is not an issue

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 56

Which codec does Cisco recommend for WAN links?

- A. G.711
- B. G.723
- C. G.728
- D. G.729

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### QUESTION 57

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?

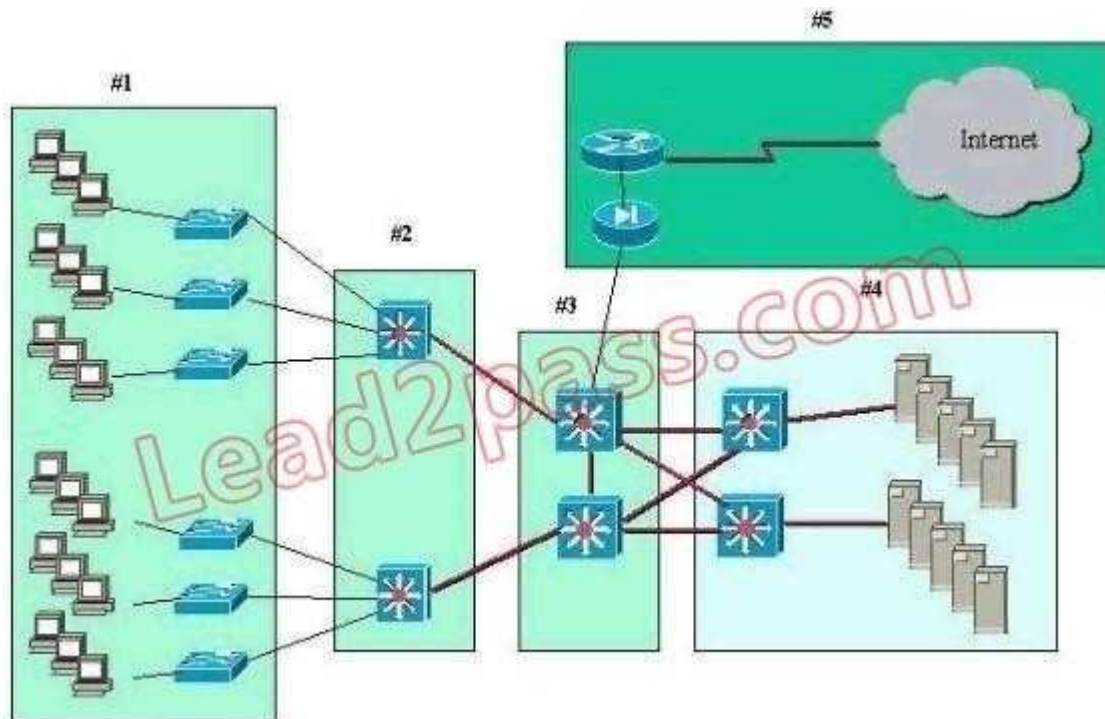
**Correct Answer:** D

**Section:** (none)

**Explanation**

#### QUESTION 58

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



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

**Correct Answer: D**

**Section: (none)**

**Explanation**

#### QUESTION 59

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.  
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- 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.

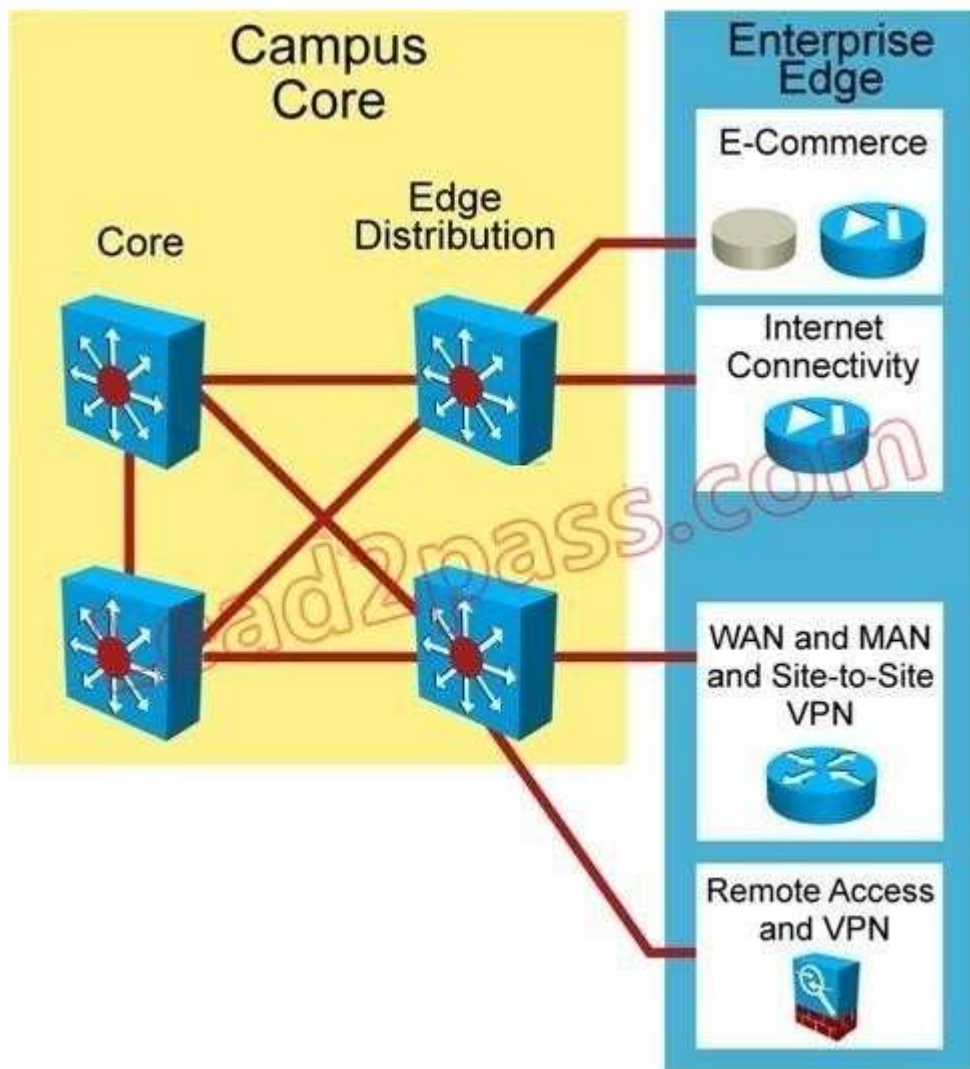
**Correct Answer: C**

**Section: (none)**

**Explanation**

#### QUESTION 60

Refer to the exhibit. Which statement is true concerning enterprise edge distribution switches?



- A. The speed of switching is the most critical feature.
- B. Security requirements are offloaded to the other modules for performance reasons.
- C. Edge distribution switches are only required when using a collapsed core backbone.
- D. Enterprise edge distribution switches are similar to the building distribution layer.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### QUESTION 61

Which one of these statements 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 such as firewalls or content switching devices.
- C. A mix of both Layer 2 and Layer 3 access is sometimes 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**

#### QUESTION 62

When designing the threat detection and mitigation portion for the enterprise data center network, which of the following would be the most appropriate solution to consider?

- A. 802.1X
- B. ACLs in the core layer
- C. Cisco Security MARS
- D. Cisco Firewall Services Module

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### QUESTION 63

A Cisco Self-Defending Network has been installed, but DoS attacks are still being directed at e-commerce hosts. The connection rate at the Internet firewall was limited, but the problem persists. What more can be done?

- A. Move the servers to the DMZ.
- B. Install all relevant operating system patches.
- C. Block the servers' TCP traffic at the Internet firewall.
- D. Block the servers' UDP traffic at the Internet firewall.

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### QUESTION 64

RST Corporation is planning to upgrade its current network. The chief technology officer has supplied a topology diagram and an IP addressing scheme of the current network during an interview.

RST has been growing at about twenty percent per year. It has been difficult to maintain customer support at a satisfactory level. Therefore, the RST board has met with and directed the chief technology officer to look into network improvements.

Which two items are most relevant in documenting RST's business requirements? (Choose two.)

- A. existing network topologies
  - B. network performance requirements
  - C. the IP addresses assigned by the ISP
  - D. improved customer support requirements
  - E. projected growth estimates
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**Correct Answer:** DE

**Section:** (none)

**Explanation**

**QUESTION 65**

Which two of these best describe the implementation of a WAN Backup design over the Internet? (Choose two.)

- A. a best-effort method
- B. bandwidth guaranteed based on interface configuration
- C. designed as an alternative to a failed WAN connection
- D. implemented with a point-to-point logical link using a Layer 2 tunnel
- E. requires no ISP coordination or involvement

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**QUESTION 66**

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

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

**Correct Answer:** DF

**Section:** (none)

**Explanation**

**QUESTION 67**

Which two methods are used to enhance VPN performance on Cisco ISRs? (Choose two.)

- A. SSL Acceleration Network Module
- B. VPN Shared Port Adapter
- C. VPN Acceleration Module
- D. high-performance VPN encryption AIM
- E. VPN Service Adapter
- F. built-in hardware-based encryption acceleration

**Correct Answer:** DF

**Section:** (none)

**Explanation**

**QUESTION 68**

Which three factors best justify WAN link redundancy between geographically dispersed sites? (Choose three.)

- A. high expense of transmitting data
- B. important traffic flows
- C. excessive packet transmission rate
- D. uncertain reliability

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- E. high link utilization
- F. lack of speed

**Correct Answer:** BDF

**Section:** (none)

**Explanation**

#### QUESTION 69

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

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

**Correct Answer:** DEF

**Section:** (none)

**Explanation**

#### QUESTION 70

The topology map in the draft design document should cover which two layers of the OSI model? (Choose two.)

- A. session
- B. data link
- C. transport
- D. application
- E. physical
- F. network

**Correct Answer:** EF

**Section:** (none)

**Explanation**

#### QUESTION 71

In a Cisco CatOS switch, what is the recommended practice when configuring switch-to-switch intercommunications to carry multiple VLANs for Dynamic Trunk Protocol?

- A. auto to auto\_negotiate
- B. disable Dynamic Trunk Protocol when operating in the distribution layer
- C. auto to auto\_no\_negotiate
- D. desirable to desirable\_no\_negotiate
- E. on to on\_negotiate
- F. desirable to desirable\_negotiate

**Correct Answer:** E

**Section:** (none)

## Explanation

### QUESTION 72

What are the two most likely driving forces motivating businesses to integrate voice and data into converged networks? (Choose two.)

- A. Voice networks cannot carry data unless the PRI circuits aggregate the BRI circuits.  
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- B. Their PSTNs cannot deploy features quickly enough.
- C. Data, voice, and video cannot converge on their current PSTN structures.
- D. Voice has become the primary traffic on networks.
- E. WAN costs can be reduced by migrating to converged networks.

**Correct Answer:** CE

**Section:** (none)

## Explanation

### QUESTION 73

A lightweight access point is added to a working network. Which sequence will it use to associate itself with a wireless LAN controller?

- A. primary, secondary, tertiary, greatest AP capacity, master
- B. primary, secondary, tertiary, master, greatest AP capacity
- C. master, primary, secondary, tertiary, greatest AP capacity
- D. greatest AP capacity, primary, secondary, tertiary, master

**Correct Answer:** B

**Section:** (none)

## Explanation

### QUESTION 74

Which three mechanisms are required to deploy QoS on an IP WAN? (Choose three.)

- A. queuing and scheduling
- B. Call Admission Control
- C. traffic shaping
- D. link efficiency techniques
- E. traffic classification
- F. bandwidth provisioning

**Correct Answer:** CDE

**Section:** (none)

## Explanation

### QUESTION 75

Drag and Drop Question



Click and drag the QoS feature type on the left to the category of QoS mechanism on the right.

WRED
CAR
ACLs
LFI
LLQ

classification
congestion
traffic
congestion
li

A.

Click and drag the QoS feature type on the left to the category of QoS mechanism on the right.

WRED
CAR
ACLs
LFI
LLQ


**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 76

Which two statements best describe the implementation of Overlay VPN connectivity for remote access in the Enterprise Edge WAN module? (Choose two.)

- A. Bandwidth is provisioned on a site-to-site basis.
- B. It uses dedicated point-to-point links.
- C. Optimum routing between customer sites requires a full mesh of virtual circuits.
- D. It must use Layer 2 labels to forward packets.

E. The ISP actively participates in customer routing.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

#### QUESTION 77

A manufacturing company has decided to add a website to enhance sales. The web servers in the E-Commerce module must be accessible without compromising network security. Which two design recommendations can be made to meet these requirements? (Choose two.)

- A. Move the E-Commerce servers to the WAN module.
- B. Use intrusion detection on the E-Commerce server farm.
- C. Limit the number of incoming connections to the E-Commerce module.
- D. Use private and public key encryption.
- E. Place E-Commerce servers and application servers on isolated LANs (DMZs).

**Correct Answer:** BE

**Section:** (none)

**Explanation**

#### QUESTION 78

After a period of rapid growth, FloCzar Boats is seeking better network management tools. Managers have developed this needs list:

Move from static to dynamic device information.  
Gain information to assist in long-term trend analysis.  
Concentrate on Layer 4 monitoring.

Which management protocol will most help FloCzar achieve its goals?

- A. RMON2
- B. SNMP
- C. NetFlow  
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- D. RMON
- E. Cisco Discovery Protocol

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### QUESTION 79

A very large organization has received its IPv6 address range from its Internet Service Provider and intends to use only IPv6 addresses internally. Employees will access the Internet using port address translation. What is a requirement for their DNS servers?

- A. There are no changes required to their DNS servers.
- B. Their DNS servers need to support only IPv6 addresses.
- C. Their DNS servers need to support only IPv4 addresses.
- D. They need additional DNS servers in their network just for IPv6 addresses.

- E. They no longer need DNS servers.
- F. Their DNS servers need to support both IPv4 and IPv6 addresses.

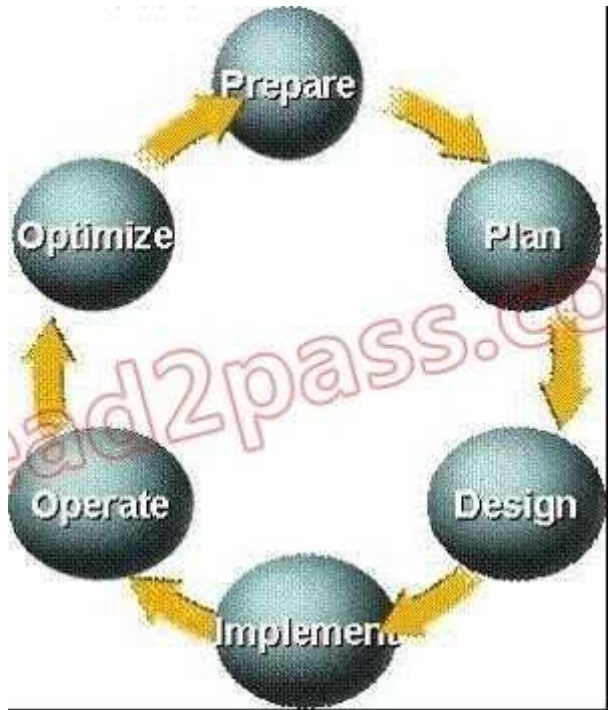
**Correct Answer:** F

**Section:** (none)

**Explanation**

**QUESTION 80**

At which stage in the PPDIOO process would you analyze a customer's network in order to discover opportunities for network improvement?



- A. Operate
- B. Implement
- C. Plan
- D. Design
- E. Prepare
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- F. Design Assessment

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 81**

Which two statements represent advantages that the top-down network design process has over the bottom-up network design process? (Choose two.)

- A. utilizes previous experience
- B. identifies appropriate technologies first

- C. is able to provide the big picture
- D. takes less time to design a network
- E. provides a design for current and future development

**Correct Answer:** CE

**Section:** (none)

**Explanation**

#### **QUESTION 82**

Which two statements about IPv6 addresses are true? (Choose two.)

- A. Two colons (::) are used to represent successive hexadecimal fields of zeros.
- B. Leading zeros are required.
- C. Two colons (::) are used to separate fields.
- D. A single interface will have multiple IPv6 addresses of different types.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

#### **QUESTION 83**

Which three security measures can be used to mitigate DoS attacks that are directed at exposed hosts within the E-Commerce module? (Choose three.)

- A. Use NIDSs and HIPSs to detect signs of attack and to identify potentially successful breaches.
- B. Partition the exposed hosts into a separate LAN or VLAN.
- C. Use LAN switch VTP pruning to separate hosts on the same segment.
- D. Use a VPN concentrator (IPSec) to protect and verify each connection to the exposed host or hosts.
- E. Use firewalls to block all unnecessary connections to the exposed hosts.

**Correct Answer:** ABE

**Section:** (none)

**Explanation**

#### **QUESTION 84**

Which technology can ensure data confidentiality, data integrity, and authentication across a public IP network?

- A. VSANs
- B. VPDNs
- C. VLANs
- D. GRE
- E. IPsec

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 85**

Which statement best describes Call Admission Control?

- A. It extends QoS capabilities to protect voice from excessive data traffic.
- B. It protects voice from voice.
- C. It provides endpoint registration control.
- D. It provides endpoint bandwidth control.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 86**

A customer wishes to implement VoIP using centralized call-processing. In addition, the customer wishes to ice quality and good bandwidth utilization. Which codec would you suggest?

- A. G.711
- B. G.729
- C. G.726
- D. G.723.1

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 87**

Drag and Drop Question

Click and drag the Cisco Self-Defending Network term on the left to the SDN description on the right.

Threat Defense

provides secure n  
controls infected

Secure Remote Access

uses encryption a  
secure transport

Cisco Self-Defending Network

uses security integra  
appliances to

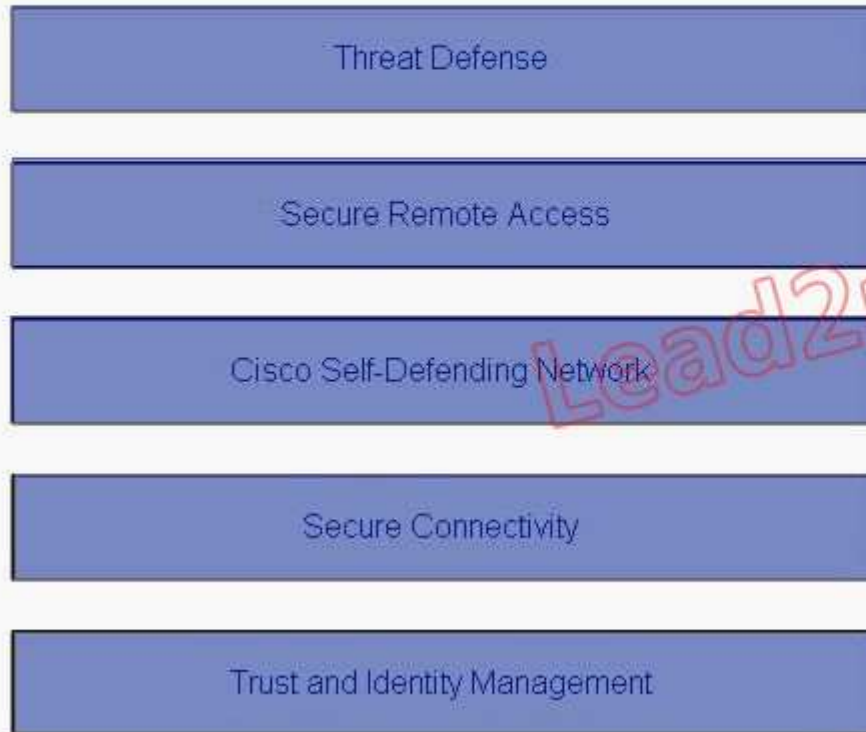
Secure Connectivity

integrates security  
prevent, a

Trust and Identity Management

A.

Click and drag the Cisco Self-Defending Network term on the left to the SDN description used.



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 88

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

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

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

#### QUESTION 89

Which of the following Cisco router services performs network traffic analysis to assist in documenting a



customer's existing network?

- A. NetMon
- B. MRTG
- C. SNMP MIB compiler
- D. NetFlow

**Correct Answer: D**

**Section: (none)**

**Explanation**

#### **QUESTION 90**

Which statement identifies a benefit obtained when using a top-down network design plan?

- A. provides a more detailed picture of the desired network
  - B. facilitates design based on previous experience
  - C. is less time-consuming than using a bottom-up approach
  - D. allows quick responses to design requests
  - E. incorporates customer organizational requirements
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**Correct Answer: E**

**Section: (none)**

**Explanation**

#### **QUESTION 91**

Lightweight access points are being deployed in remote locations where others are already operational. The new access points are in a separate IP subnet from the wireless controller. OTAP has not been enabled at any locations. Which two methods can the AP use to locate a wireless controller? (Choose two.)

- A. NV-RAM IP address
- B. master
- C. primary, secondary, tertiary
- D. DHCP
- E. local subnet broadcast
- F. DNS

**Correct Answer: DF**

**Section: (none)**

**Explanation**

#### **QUESTION 92**

Which Cisco security solution can quarantine and prevent non-compliant end stations from accessing the network until they achieve security policy compliance?

- A. Cisco Security Monitoring, Analysis, and Response System
- B. Adaptive Security Appliance
- C. Network Admission Control
- D. Network Intrusion Prevention System
- E. Cisco Secure Connectivity

F. Access Control Server

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 93**

A network design includes private addressing, but there is also a need for two or three network devices to each be assigned a unique public address so they can be accessed from the Internet. Which technique will satisfy this requirement?

- A. Static NAT
- B. VPN tunneling
- C. Dynamic NAT
- D. DHCP

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 94**

A Cisco security mechanism has the following attributes:

- It is a sensor appliance
- It searches for potential attacks by capturing and analyzing traffic
- It is a "purpose-built device"

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- It is installed passively
- It introduces no delay or overhead

Which Cisco security mechanism is this?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 95**

Which two routing protocols operate over NBMA point-to-multipoint networks without the use of point-to-point subinterfaces? (Choose two.)

- A. OSPF
- B. EIGRP
- C. RIPv2
- D. RIPv1

- E. IGRP
- F. IS-IS

**Correct Answer:** AB

**Section:** (none)

**Explanation**

#### **QUESTION 96**

Which three types of WAN topologies can be deployed in the Cisco Enterprise Architecture Enterprise Edge WAN module? (Choose three.)

- A. ring
- B. full mesh
- C. partial mesh
- D. collapsed core
- E. star
- F. core
- G. edge

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

#### **QUESTION 97**

Which statement accurately describes one difference between a small office and medium office topology?

- A. Medium offices commonly use integrated route and switching platforms.
- B. Medium offices use integrated 10/100/1000 interfaces as Layer 2 trunks.
- C. Medium offices use external access switches to support LAN connectivity.
- D. Small offices commonly use Rapid PVST+ for Layer 3 deployments.

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**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 98**

A customer has the following Enterprise Campus design requirements:

at least 10 Gbps of bandwidth

network runs of up to 40km

no concern for transmission medium cost

Which transmission medium should you recommend to this customer?

- A. unshielded twisted pair
- B. shielded twisted pair
- C. single-mode fiber
- D. wireless
- E. multimode fiber

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

#### **QUESTION 99**

You design a network with the following network addresses:

192.168.168.0  
192.168.169.0  
192.168.170.0  
192.168.171.0  
192.168.172.0  
192.168.173.0  
192.168.174.0  
192.168.175.0

Which route address is the best summary of these network addresses?

- A. 192.168.0.0/16
- B. 192.168.168.0/21
- C. 192.168.0.0/24
- D. 192.168.171.128/3
- E. 192.168.175.0/3
- F. None of the above

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

#### **QUESTION 100**

Which two of the following statements represent a preferred wireless LWAPP implementation? (Choose two.)

- A. verify open ports for:  
Layer 2 LWAPP on ethertype 0xB BBBB  
Layer 3 LWAPP on UDP 12222 and UDP 12223
- B. use of Layer 3 LWAPP is preferred over Layer 2 LWAPP
- C. use of Layer 2 LWAPP is preferred over Layer 3 LWAPP  
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- D. verify open ports for:  
Layer 2 LWAPP on ethertype 0xBABA  
Layer 3 LWAPP on UDP 12222 and TCP 12223
- E. verify open ports for:  
Layer 2 LWAPP on ethertype 0xABAB  
Layer 3 LWAPP on TCP 12222 and TCP 12223

**Correct Answer:** AB  
**Section:** (none)  
**Explanation**

#### **QUESTION 101**

Which two capabilities of NetFlow accounting assist designers with network planning? (Choose two.)

- A. the monitoring of processor time on network devices
- B. the calculation of packet and byte counts of network traffic
- C. the decoding and analyzing of packets
- D. the presentation of a time-based view of application usage on the network
- E. the monitoring of user network utilization

**Correct Answer:** BE

**Section:** (none)

**Explanation**

#### **QUESTION 102**

What is the benefit of deploying a gatekeeper in an H.323 IP telephony network?

- A. provides spatial redundancy through the use of HSRP
- B. provides load balancing via GUP when alternate gatekeepers are deployed
- C. reduces configuration complexity by centralizing the dial plan
- D. increases redundancy by allowing each gateway to maintain a copy of the dial plan

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 103**

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 would you suggest?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 104**

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Which Cisco security solution offers protection against "day zero" attacks?

- A. Cisco IOS IPS
- B. Cisco IOS Firewall
- C. Cisco Traffic Anomaly Detector
- D. Cisco Adaptive Security Appliance

E. Cisco Security Agent

**Correct Answer:** E

**Section:** (none)

**Explanation**

**QUESTION 105**

Which type of trunk is required in order to connect a fax machine to a PBX?

- A. intra-office
- B. Foreign Exchange Office
- C. central office
- D. Foreign Exchange Station
- E. inter-office

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 106**

Which H.323 protocol controls call setup between endpoints?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 107**

Which two of these represent a best practice implementation of a Split MAC LWAPP deployment in a Cisco Unified Wireless Network? (Choose two.)

- A. Each wireless client authentication type maps to a unique SSID which in turn maps to a unique VLAN.
- B. 802.1Q trunking extends from the wired infrastructure to the access point for translation into SSID(s).
- C. 802.1Q trunking extends from the wired infrastructure to a wireless LAN controller for translation into SSID(s).
- D. Each wireless client authentication type maps to a shared SSID which in turn maps to a common shared VLAN.
- E. Each wireless client authentication type maps to a unique SSID which in turn maps to a common shared VLAN.
- F. 802.1Q trunking extends from the wired infrastructure to a wireless LAN controller. Then the 802.1Q packet is encapsulated in LWAPP and sent to the access point for transmission over the SSID(s).

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 108**

Which two statements best describe intradomain route summarization? (Choose two.)

- A. EIGRP and OSPF must be manually configured to summarize at non-classful boundaries.
- B. EIGRP and OSPF automatically summarize at classful network boundaries.
- C. OSPF and RIP automatically summarize at classful network boundaries.
- D. EIGRP and RIP automatically summarize at classful network boundaries.
- E. EIGRP and OSPF automatically summarize at non-classful boundaries.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**QUESTION 109**

Which two VoIP characteristics are affected most by codec choice? (Choose two.)

- A. voice quality
- B. voice packet header size
- C. bandwidth required for voice calls
- D. silent packet handling

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**QUESTION 110**

A network design document is being prepared for a customer. Which three network design elements must be included? (Choose three.)

- A. proof of concept
- B. data sources
- C. design details
- D. organizational policies
- E. implementation plan

**Correct Answer:** ACE

**Section:** (none)

**Explanation**

**QUESTION 111**

Which of these accurately describes dial backup routing?

- A. it always uses distance vector routing protocols
- B. once the backup link is activated it will remain active even after the primary link is restored
- C. it always uses permanent static routes
- D. it is supplied by the service provider as a secondary PVC at no additional charge
- E. the router initiates the dial backup link when a failure is detected on the primary link

**Correct Answer:** E



**Section: (none)**

**Explanation**

**QUESTION 112**

Which statement correctly describes queuing in environments supporting teleworkers?

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- A. Queuing occurs on the outbound interface.
- B. Hardware queues are configured for appropriate PQ, CQ, or WFQ.
- C. Priority queuing guarantees some level of service to all traffic.
- D. WFQ is the Cisco IOS default on all WAN links regardless of speed.
- E. CQ is for time-sensitive protocols.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**QUESTION 113**

Which two techniques can reduce voice packet transfer delay across a link of less than 512 kbps? (Choose two.)

- A. deploy LFI
- B. increase link bandwidth
- C. extend the trust boundary
- D. deploy software compression
- E. increase queue depth

**Correct Answer: AB**

**Section: (none)**

**Explanation**

**QUESTION 114**

Drag and Drop Question

Match the Cisco security solution on the left to its function on the right.

Anomaly Guard and Detector

protects the endp

Cisco Security Agent

provides multiple fu  
sec

IPS Appliance

preven

ASA

provides We

SSL Service Module

preve

A.

Match the Cisco security solution on the left to its function on the right.

Anomaly Guard and Detector

Cisco Security Agent

IPS Appliance

ASA

SSL Service Module

Anom

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 115**

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 116**

Which statement can a network designer use to describe route summarization to an IT manager?

- A. It is the grouping of ISP network addresses to minimize the number of routes to the Internet.
- B. It is the grouping of multiple discontinuous subnets to increase routing performance.
- C. It is the grouping of multiple contiguous networks and advertising as one large network.
- D. It is the grouping of multiple contiguous subnets into one Class A, B, or C IP address to minimize routing table size.

**Correct Answer:** C

**Section:** (none)

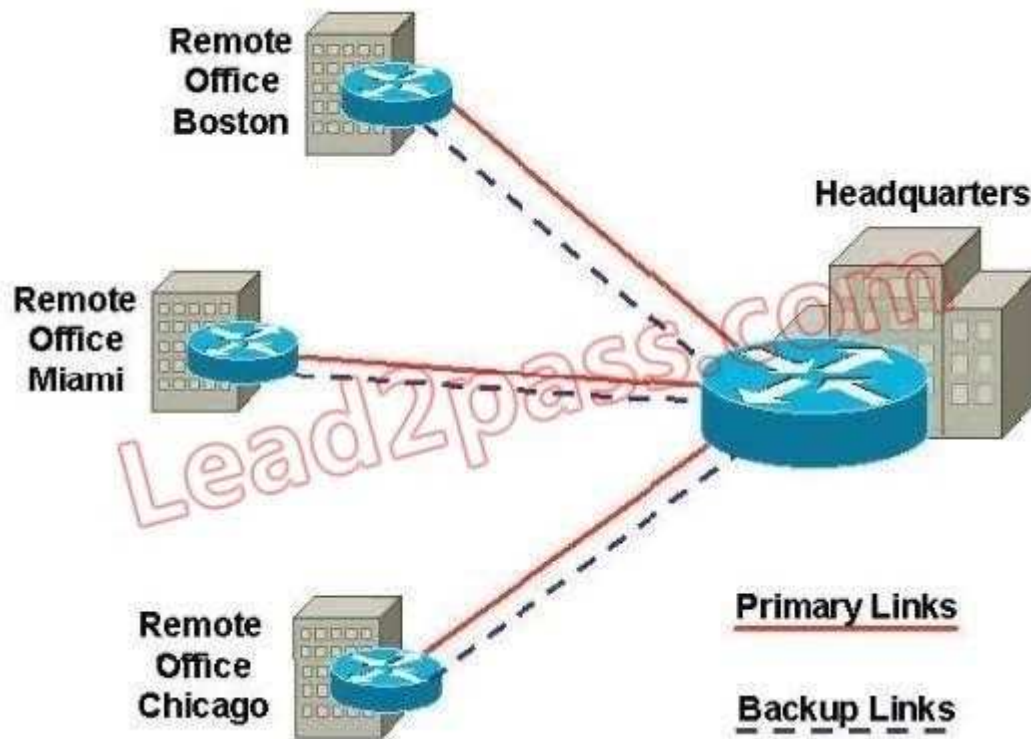
**Explanation**

**QUESTION 117**

Refer to the exhibit. All primary links are T1s. The customer wants to have a backup to each remote office from the Headquarters office.

Which two types of backup links would be viable solutions? (Choose two.)

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- A. dial backup routing
- B. shadow SVC
- C. permanent secondary WAN link
- D. VPDN

**Correct Answer:** AC

**Section:** (none)

**Explanation**

#### QUESTION 118

A Cisco SONA architecture layer is described as follows:

The layer's IT resources are interconnected across a converged network foundation.

The layer's IT resources include servers, storage, and clients. The layer represents how resources exist across the network.

The customer objective for the layer is to have anywhere/anytime connectivity. Which Cisco SONA architecture layer is being described?

- A. Application
- B. Integrated Transport
- C. Physical
- D. Networked Infrastructure
- E. Interactive Services

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 119**

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Which information should a network summary report identify?

- A. actions needed to support the existing network
- B. customer requirements
- C. new network features
- D. customer requirement modifications
- E. actions needed to support existing network features
- F. infrastructure shortcomings

**Correct Answer:** F

**Section:** (none)

**Explanation**

**QUESTION 120**

Given a VoIP network with these attributes:

Codec: G.711  
WAN bandwidth: 768Kbps  
Packet Header: 6 bytes  
Payload: 160 bytes  
CRTP: No

How many calls can be made?

- A. 7 calls
- B. 13 calls
- C. 8 calls
- D. 9 calls
- E. 11 calls

**Correct Answer:** E

**Section:** (none)

**Explanation**

**QUESTION 121**

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

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

**Correct Answer:** CEF

**Section:** (none)

**Explanation**

**QUESTION 122**

Which two of these are required for wireless client mobility deployment when using a Cisco Unified Wireless Network? (Choose two.)

- A. matching RF power
- B. matching security
- C. assigned master controller  
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- D. matching mobility group name
- E. matching RF channel
- F. matching RF group name

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**QUESTION 123**

In the Cisco branch office design, what categorizes an office as large?

- A. between 50 and 100 users and a single-tier design
- B. between 100 and 200 users and a three-tier design
- C. between 50 and 100 users and a three-tier design
- D. over 200 users and a two-tier design
- E. between 100 and 200 users and a two-tier design

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 124**

A company is designing a worldwide IPv6 network with duplicated file servers at multiple locations. Each file server contains identical reference information. Which IPv6 address type would be used to allow each end station to send a request to the nearest file server using the same destination address, regardless of the location of that end station?

- A. broadcast
- B. multicast
- C. anycast
- D. unicast

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 125**

When designing using the Cisco Enterprise Architecture, in which Enterprise Campus layer do the Enterprise Edge and Enterprise WAN modules establish their connection?

- A. Building Access
- B. Building Distribution

- C. Campus Core
- D. Enterprise Branch
- E. Enterprise Data Center

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 126**

Which three of these describe the best practice for Cisco wireless outdoor Mesh network deployment? (Choose three.)

- A. mesh hop counts of 4 or fewer
- B. RAP implemented with 20 or fewer MAP nodes
- C. client access via 802.11a and backhaul with 802.11b/g  
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- D. client access via 802.11b/g and backhaul with 802.11a
- E. mesh hop counts of 8 to 4
- F. RAP implemented with 20 to 32 MAP nodes

**Correct Answer:** ADF

**Section:** (none)

**Explanation**

#### **QUESTION 127**

The Cisco Data Center Network Architecture comprises which two Cisco SONA layers? (Choose two.)

- A. Collaboration Applications
- B. WAN/Internet
- C. Interactive Services
- D. Network Infrastructure
- E. Business Applications

**Correct Answer:** CD

**Section:** (none)

**Explanation**

#### **QUESTION 128**

Which two of these are scalability benefits of designing a network that utilizes VPNs?

(Choose two.)

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

**Correct Answer:** AB

**Section:** (none)



## Explanation

### QUESTION 129

You are designing a small branch office that requires these attributes:

support for 60 users  
the growth capacity to add another 15 users soon  
redundant access  
higher bandwidth between the Layer 2 switch and routing to the WAN

Which branch office topology or technology must be used?

- A. EtherChannel
- B. loop-free
- C. three-tier
- D. two-tier
- E. integrated routing and switching

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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### QUESTION 130

Western Associated News Agency recently acquired a large news organization with several sites, which will allow it to expand to worldwide markets. The new acquisition includes these connectivity technologies:

Frame Relay  
ATM  
SONET  
cable  
DSL  
wireless

From a Layer 1 viewpoint, which Enterprise Edge module will be most affected?

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

**Correct Answer:** F

**Section:** (none)

**Explanation**

### QUESTION 131

Which two implementation plan principles best describe how to deal with potential failures? (Choose two.)

- A. A table of failure points, rollback steps, and estimated rollback times.

- B. A good implementation plan.
- C. A test should be included at every step.
- D. A detailed rollback procedure for each implementation step.
- E. A successful test network test.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**QUESTION 132**

Drag and Drop Question

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Match the bandwidth usage optimization technique on the left with its definition on the right.

queuing

window size

traffic policing

data compression

limits the number of  
acknowledgements

reduces data size  
optimizing the

allows network ad  
varying demands

discards packets or  
(such as

A.

Match the bandwidth usage optimization technique on the left with its definition on the right

queuing	
window size	
traffic policing	
data compression	

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 133

Refer to the exhibit. You are documenting the existing network of a customer with a large installed Cisco network. The routers listed are in use on the network. Which two additional pieces of information would be the most valuable in completing your documentation of these routers? (Choose two.)

435 Cisco model 2800 routers

129 Cisco model 3800 routers

10 Cisco model 7500 routers

A. software revisions

B. interface options

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C. power requirements

D. error statistics

E. management protocols

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**QUESTION 134**

Which of these is the next step after the design phase in the PPDIOO process?

- A. Develop a high-level migration plan.
- B. Develop the implementation plan in as much detail as possible.
- C. Create a pilot or a prototype network.
- D. Identify which network management protocol will be used for which function.
- E. Order the equipment.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 135**

You are designing IPv6 into an existing IPv4 network. Which two strategies can you use to allow both address schemes to coexist, thus facilitating migration? (Choose two)

- A. translate one protocol into the other
- B. redistribute between IPv6-capable and non-IPv6-capable routing protocols
- C. encapsulate IPv6 packets within IPv4 packets
- D. bridge between the IPv6 and IPv4 networks
- E. enable anycast capability in the routing protocol

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**QUESTION 136**

A network is being designed to meet the requirements listed.  
Within the enterprise network:

All routers are Cisco 3800 Series routers running the latest Cisco IOS release.  
The fastest convergence time possible is required.  
Unequal cost load-balancing is required.

For Internet connections:

A single link is used to connect to a single ISP.

Which two routing protocols should be used?(Choose two.)

- A. Use Internal BGP as the IGP within the enterprise.
- B. Use Static (Default) routing between the enterprise and the ISP.
- C. Use OSPF as the IGP within the enterprise.
- D. Use EIGRP as the IGP within the enterprise.
- E. Use EIGRP between the enterprise and the ISP.
- F. Use External BGP between the enterprise and the ISP.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**QUESTION 137**

Which two statements best describe Cisco Wireless LAN Guest Access in a Cisco Unified Wireless Network? (Choose two.)

- A. Dedicated guest VLANs are only extended to the wireless controllers in the network to ensure path isolation.
- B. Guest tunnels have limitations on which wireless controllers can originate the tunnel.
- C. Dedicated guest VLANs are extended throughout the network to the access points for path isolation.
- D. Guest tunnels can originate and terminate on any wireless controller platform.
- E. Guest tunnels have limitations on which wireless controllers can terminate the tunnel.
- F. Dedicated guest access in the DMZ extends from the origination to the termination controllers without dedicated guest VLANs.

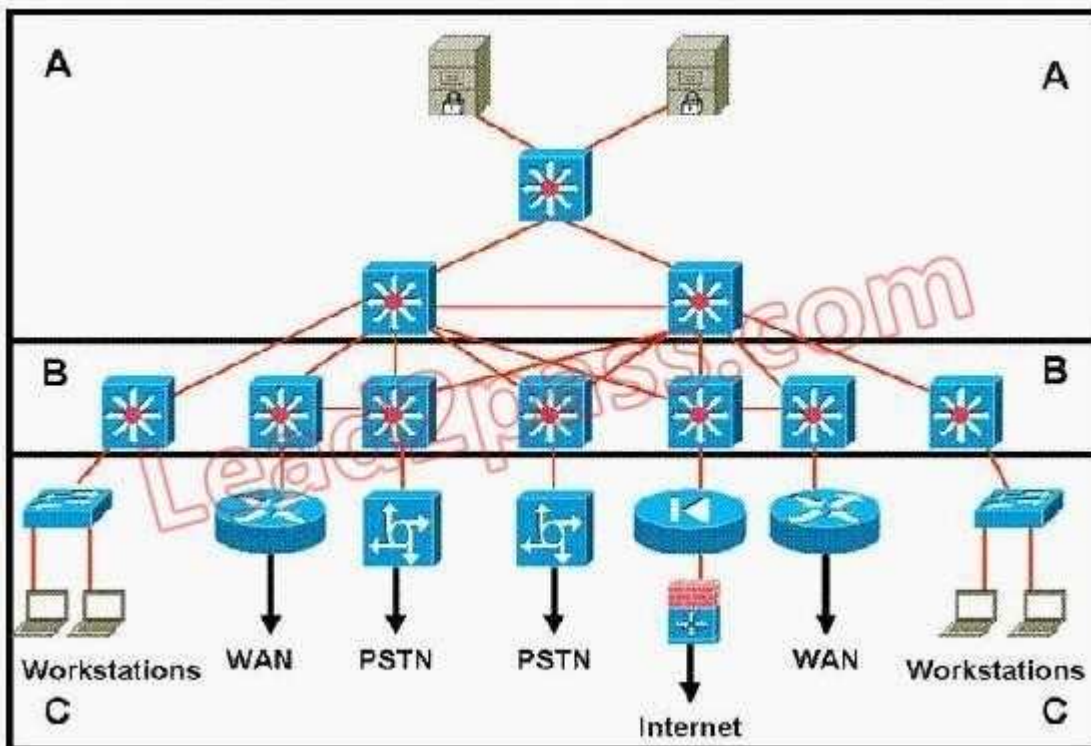
**Correct Answer:** EF

**Section:** (none)

**Explanation**

**QUESTION 138**

Refer to the exhibit. Which statement accurately represents the characteristics of the core layer in this design?



- A. Access lists should be used in the core to perform packet manipulation.
- B. QoS should be performed only in the core.

- C. Load balancing should never be implemented or used in the core.
- D. It is acceptable to use a partial mesh in the core if it is connected to each device by multiple paths.  
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- E. Policy-based traffic control is implemented in the core to enable prioritization, ensuring the best performance for all time-critical applications.

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 139**

For which technology is IPsec required for a site-to-site enterprise WAN/MAN architecture?

- A. self-deployed MPLS
- B. ATM
- C. Frame Relay
- D. SP MPLS VPN
- E. ISP Service

**Correct Answer:** E

**Section:** (none)

**Explanation**

#### **QUESTION 140**

What does Cisco recommend as the foundation of any deployed security solution?

- A. Customer needs
- B. Security audit
- C. Service-level agreement
- D. Corporate security policy

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 141**

What is the administrative distance of eBGP routes?

- A. 200
- B. 100
- C. 20
- D. 110

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 142**

Which name is for the Cisco product that provides centralized, policy-based security management?

- A. IDS
- B. Out-of-band management
- C. AAA
- D. CSPM

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### QUESTION 143

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Which statement represents a likely starting point for planning network changes?

- A. Protocol assessment
- B. Determining the design requirements
- C. Determining the business needs
- D. Determining the application requirements

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### QUESTION 144

Drag and Drop Question

Select from these	Place here	Description
Agent	Place here	periodically collects object information
MIB	Place here	management transport mechanism
SNMP	Place here	generate traps of events
Manager	Place here	store information about network objects

A.

Select from these	Place here	Description
Agent	Manager	periodically collects object information
MIB	SNMP	management transport mechanism
SNMP	Agent	generate traps of events
Manager	MIB	store information about network objects



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 145**

What does IGMP stand for?

- A. Internet Group Management Protocol
- B. Interior Gateway Routing Protocol
- C. Interior Group Management Protocol
- D. Interior Gateway Media Protocol

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 146**

ISDN is short for Integrated Services Digital Network. Under what category of WAN technologies does ISDN belong?

- A. Cell-switched
- B. Circuit-switched
- C. Packet-switched
- D. Leased lines

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 147**

As a network engineer, can you tell me accounting management on a network-management system allows a network manager to perform which function?

- A. Assess the network's effectiveness and throughput
- B. Charge back to users for network resources
- C. Performance management
- D. Identify problem areas in the network

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 148**

Which address type is 225.10.1.1?

- A. Unicast

- B. Anycast
- C. Multicast
- D. Broadcast

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### QUESTION 149

What is the length of the key used with Triple Data Encryption Standard (3DES)?

- A. 64 bits
- B. 168 bits
- C. 128 bits
- D. 56 bits

**Correct Answer:** B

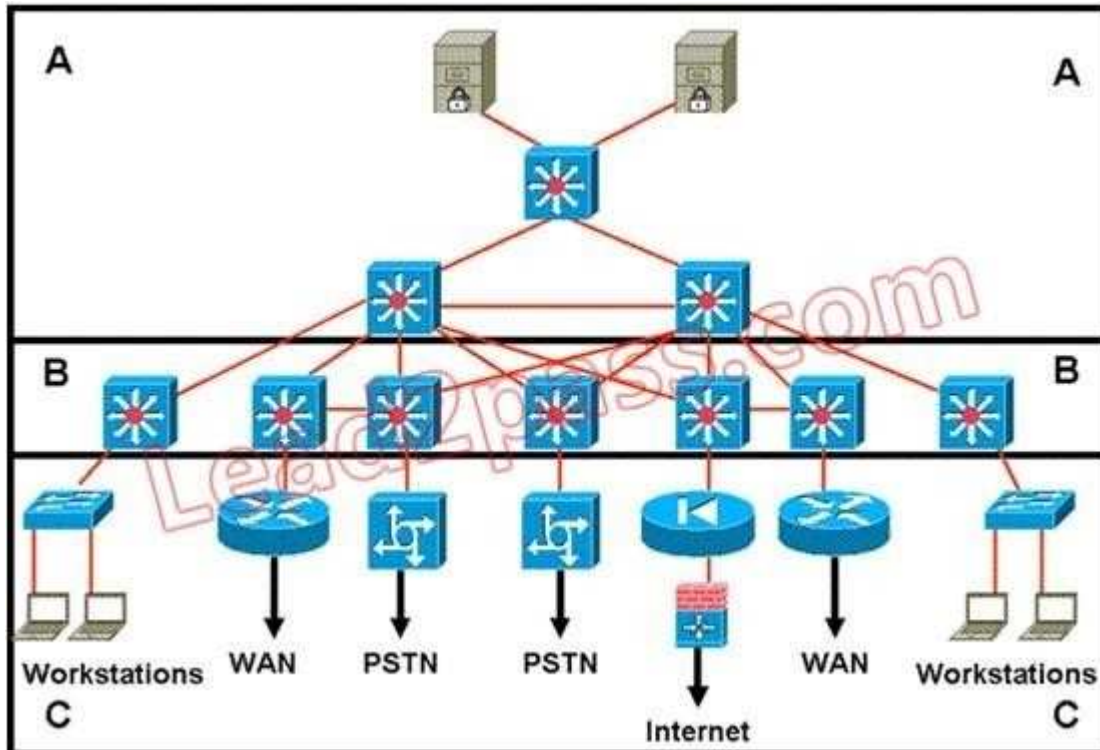
**Section:** (none)

**Explanation**

#### QUESTION 150

Refer to the exhibit. Which layer is the distribution layer?

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- A. Layer A
- B. Layer B

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 151**

A wireless LAN or WLAN is a wireless local area network, which is the linking of two or more computers or devices without using wires. How are wireless LANs identified?

- A. Service Set Identifier (SSID)
- B. Internet Group Management Protocol (IGMP)
- C. IP network
- D. Wired Equivalent Privacy (WEP) key

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 152**

Observe the following options, what is the hierarchy for IPv6 aggregatable addresses?

- A. Global, site, loop
  - B. Multicast, anycast, unicast
  - C. Public, site, interface
  - D. Internet, site, interface
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**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 153**

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

**Section:** (none)

**Explanation**

#### **QUESTION 154**

Which type of routing protocol will be used when connecting to an Internet service provider?

- A. Classless routing protocol
- B. Exterior gateway protocol

- C. Interior gateway protocol
- D. Classful routing protocol

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 155**

Which routing protocol is classful?

- A. Intermediate System-to-Intermediate System (IS-IS) and OSPF
- B. Routing Information Protocol Version 1 (RIPv1) and RIPv2
- C. IGRP and RIPv1
- D. Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF)

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 156**

Which attack type would you expect on segments that have many servers for some well-known applications?

- A. Trojan horses
- B. DoS attacks
- C. Application-layer attacks
- D. Password attacks

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 157**

Which types of communicating devices compose RMON architecture ?(choose two)

- A. Router  
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- B. Switch
- C. Management station
- D. Monitor

**Correct Answer:** CD

**Section:** (none)

**Explanation**

#### **QUESTION 158**

Which FCAPS function includes finding network problems that reduce availability?

- A. Security management
- B. Accounting management
- C. Fault management

D. Performance management

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 159**

What is the name of the organization that is in charge of creating the FCAPS architecture?

- A. ISP
- B. IOS
- C. ITU-T
- D. IEEE

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 160**

Define some of the activities, tools, and techniques used in today's network-design process.(Choose three.)

- A. Analyzing network traffic
- B. Simulation of network traffic
- C. Network auditing
- D. Filtering incoming network traffic

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**QUESTION 161**

Which is the remote monitoring agent in the RMON architecture called?

- A. Tree
- B. Station
- C. Agent
- D. Probe

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 162**

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Which type of DSL does residential service use?

- A. VDSL
- B. SDSL
- C. IDSL

D. ADSL

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 163**

Which item is not a part of the process recommended by Cisco for WAN designs?

- A. Characterize the existing network.
- B. Analyze customer requirements.
- C. Configure deployed services.
- D. Design the new WAN topology.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 164**

In IS-IS networks, which routers does the backup designated router (BDR) form adjacencies to?

- A. Only to the DR.
- B. The BDR only becomes adjacent when the DR is down.
- C. To all routers.
- D. There is no BDR in IS-IS.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 165**

What does Compressed Real-Time Transport Protocol (CRTP) compress ?

- A. RTP, TCP, and IP headers
- B. RTP headers
- C. RTP, User Datagram Protocol (UDP), and IP headers
- D. Real-Time Transport Control Protocol (RTCP) headers

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 166**

Which mechanism will be often used by service providers to define their service offerings and to differentiate their services from their competitors?

- A. SLM
- B. SLA
- C. SLC
- D. SAA

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 167**

What is the virtual information store used within SNMP called?

- A. MIB
- B. RMON
- C. Protocol data unit (PDU)
- D. Abstract Syntax Notation One (ASN.1)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**QUESTION 168**

Which standard language will be used by SNMP to define the device information to be stored?

- A. SNMPv4
- B. ASN.1
- C. MIBs
- D. Agents

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 169**

Which WAN scenario might be appropriate for queuing solutions?

- A. A newly implemented WAN connection has yet to demonstrate sufficient WAN statistics for congestion-level tracking.
- B. A WAN connection features consistent congestion problems, and data transfers often suffer.
- C. A WAN connection is rarely congested, and data transfers never suffer.
- D. A WAN connection features occasional periods of congestion, and data transfers have occasionally suffered as a result.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 170**

Your boss is interested in a wireless WAN solution which provides higher bandwidth than point-to-multipoint (p2mp) wireless. Which description is correct?

- A. Service providers cannot install point-to-point (p2p) links from a p2mp hub.
- B. P2p wireless connections can provide up to 44 Mbps raw bandwidth.

- C. P2p links tend to be slower than p2mp.
- D. P2mp wireless connections can provide up to 1.544 Mbps raw bandwidth.

**Correct Answer: B**

**Section: (none)**

**Explanation**

#### **QUESTION 171**

Examine the following protocols, which two are used for IP Security?

- A. Generic Routing Encapsulation (GRE) and Internetwork Packet Exchange (IPX)(EIGRP) "First Test, First Pass" - [www.lead2pass.com](http://www.lead2pass.com) 59  
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- B. Border Gateway Protocol (BGP) and Enhanced Interior Gateway Routing Protocol
- C. Authentication Header (AH) and Encapsulating Security Payload (ESP)
- D. Virtual Private Dial-Up Network (VPDN) and GRE

**Correct Answer: C**

**Section: (none)**

**Explanation**

#### **QUESTION 172**

What is SNMP?

- A. Simple Network Management Protocol
- B. Simple Network Monitoring Protocol
- C. Sampling Network Management Process
- D. Simple Network Maintenance Procedure

**Correct Answer: A**

**Section: (none)**

**Explanation**

#### **QUESTION 173**

When building Global network businesses , which three principles should be used?

- A. Customer focus, continuous standardization, and core versus context
- B. Customer focus, centralization, and core versus context
- C. Customer focus, decentralization, and core versus edge
- D. Customer focus, decentralization, and core versus context

**Correct Answer: A**

**Section: (none)**

**Explanation**

#### **QUESTION 174**

For the following items, which component of the CiscoWorks product allows a network administrator to define and manage service levels?

- A. Service assurance agent (SAA)
- B. Service level manager (SLM)



- C. Collection Manager (CM)
- D. Service level agreement (SLA)

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 175**

NAT-PT is an IPv6-IPv4 translation mechanism. What is NAT-PT?

- A. Network address translation?port translation; translates RFC 1918 addresses to public IPv4 addresses
- B. Network address translation-protocol translation; translates between IPv4 and IPv6 addresses
- C. Next address translation?port translation
- D. Network addressable transparent-port translation; translates network addresses to ports

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 176**

What Cisco router configuration component does an implementer use to create a floating static route?

- A. Primary interface
- B. Administrative distance
- C. Loopback
- D. Description

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 177**

Which Cisco proprietary protocol will be used in LAN switches to control multicast traffic at the data link layer within a LAN switch?

- A. MAC filters
- B. Cisco Group Management Protocol (CGMP)
- C. Cisco Discovery Protocol (CDP)
- D. IGMP

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 178**

A common response to an attack by this device can be either to send an alert or to take corrective action. What is this device?

- A. Vulnerability assessment
- B. Firewall
- C. Intrusion-detection system (IDS)
- D. Router

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 179**

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

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 180**

Which protocol will be used to exchange IP routes between autonomous systems?

- A. eBGP
  - B. IGMP
  - C. IGRP
  - D. OSPF
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**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 181**

What does the Cisco security architecture called SAFE stand for?

- A. Security Architecture for Enterprise
- B. Standard Assessment for Enterprise
- C. Security Analysis for Enterprise
- D. Standard Architecture for Enterprise

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 182**

You are a network technician, can you tell me how many IP addresses are available for hosts in the subnet 198.10.100.64/27?

- A. 62
- B. 30
- C. 126
- D. 14

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 183**

Which two encryption transforms will be used by both ESP and AH for authentication?

- A. HMAC-MD5 or Hash Message Authentication Code-Secure Hash Algorithm-1(HMAC-SHA-1)
- B. DES or 3DES
- C. DES or Hash Message Authentication Code-Message Digest 5 (HMAC-MD5)
- D. 3DES or MD5

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 184**

For the following options, which emerging WAN technology uses DSL coding and digital modulation techniques with Ethernet?

- A. Cable
- B. Wireless
- C. SMDS
- D. Long-Reach Ethernet (LRE)

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 185**

What is SLC?

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- A. Standard level contracts
- B. Standard level configuration
- C. Service level contracts
- D. Service level configuration

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 186**

What does ODR stand for?

- A. Open default routing
- B. Optical demand routing
- C. Open dedicated routing
- D. On-demand routing

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 187**

Observe the following options, in which section of the network document does Cisco recommend a discussion of performance, scalability, capacity, security, and traffic needs?

- A. Design summary
- B. Design solution
- C. Executive summary
- D. Design requirements

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 188**

In telephony, the local loop is the physical link or circuit. Where is the local loop located?

- A. Between the loopback interfaces of two VoIP routers
- B. Between phones and the central office (CO) switch
- C. Between two PBXs
- D. Between two PSTN switches

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 189**

Which advantage is of security systems that are part of the Cisco ecosystem?

- A. There is a suite of products to choose from.
- B. Various partners as well as supporting products increase the effectiveness of security systems.
- C. There are no advantages.
- D. The Cisco ecosystem ensure that partners can implement the solution.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 190**

What is ASBR short for?

- A. Area Border Router
- B. Auxiliary System Border Router
- C. Area System Border Router
- D. Autonomous System Boundary Router

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 191**

Area Border Router (ABR) is defined by which protocol?

- A. Enhanced Interior Gateway Routing Protocol (EIGRP)
- B. OSPF
- C. On-Demand Routing (ODR)
- D. IS-IS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 192**

Which queuing mechanism establishes four interface output queues that will be used for traffic scheduling?

- A. Priority queuing (PQ)
- B. First-in, first-out (FIFO)
- C. Weighted fair queuing (WFQ)
- D. Custom queuing (CQ)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**QUESTION 193**

Which option is not valid for using the public Internet as a backup WAN medium?

- A. IP Security (IPSec) tunnels
- B. Shared PVC
- C. IP routing without constraints
- D. Generic Routing Encapsulation (GRE) tunnels

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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**QUESTION 194**

For the following items, which is an SP Edge module in the Enterprise Composite Network model?

- A. Core layer
  - B. Edge distribution
  - C. Public Switched Telephone Network (PSTN) service
  - D. Server farm
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**Correct Answer: C**

**Section: (none)**

**Explanation**

**QUESTION 195**

Which method will be used to secure a network against man-in-the-middle attack?

- A. Two-factor authentication
- B. Management module
- C. Encryption
- D. Firewall

**Correct Answer: C**

**Section: (none)**

**Explanation**

**QUESTION 196**

What is important for the top-down design concept?

- A. Engagement of the HR representatives during the design process
- B. Engagement of the top executives during the design process
- C. Engagement of the employees working on the top floors in the building during the design process
- D. Engagement of the top executives once the design process is finalized

**Correct Answer: B**

**Section: (none)**

**Explanation**

**QUESTION 197**

Which one of the following QoS mechanisms is recommended for VoIP networks?

- A. Low-latency queuing (LLQ)
- B. Switched-based queuing

- C. Fast queuing
- D. Custom queuing

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 198**

In which layer of the OSI model does Real-Time Transport Protocol (RTP) operate ?

- A. Network
- B. Application
- C. Transport
- D. Session

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 199**

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  
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- C. Hierarchical structured design
- D. PDIOO

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 200**

Which parameters does the computation of the EIGRP composite metric use by default?

- A. Bandwidth and reliability
- B. Bandwidth and load
- C. Bandwidth and maximum transmission unit (MTU)
- D. Bandwidth and delay

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 201**

Which statement is true about WANs?

- A. Switches or concentrators often relay information through the WAN.
- B. WANs typically encompass broad geographic areas.

- C. In general, WAN technologies function at the middle three layers of the Open System Interconnection (OSI) model.
- D. Users of WANs do not typically own all transmission facilities.

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 202**

Which item is not a true disadvantage of the full-mesh topology?

- A. Central hub router represents a single point of failure in the network.
- B. High level of complexity to implement.
- C. Large number of packet replications required.
- D. High costs due to number of virtual circuits.

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 203**

Which IPv4 field are the precedence bits located in?

- A. IP destination address
- B. Type-of-service field
- C. IP options field
- D. IP protocol field

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 204**

Which hierarchical layer has functions such as High availability, port security, and rate limiting?

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- A. Core
- B. Access
- C. Network
- D. Distribution

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 205**

With which of the following capabilities does RIPv2 improve RIPv1?

- A. Multicast updates, authentication, variable-length subnet mask (VLSM)



- B. Authentication, VLSM, hop count
- C. Multicast updates, authentication, hop count
- D. Multicast updates, hop count

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 206**

Which is the maximum segment distance for Fast Ethernet over unshielded twisted-pair (UTP)?

- A. 285 feet
- B. 100 feet
- C. 500 feet
- D. 100 meters

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 207**

Which term accurately describes a specific measure of delay often used to describe voice and video networks?

- A. Jitter
- B. Flux
- C. Latency
- D. Reliability

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 208**

Which layer is in charge of fast transport in the hierarchical network model?

- A. Network
- B. Distribution
- C. Access
- D. Core

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 209**

SNMP is short for Simple Network Management Protocol. Which version or versions of SNMP specify security extensions as part of the protocol definition?

- A. SNMPv2
- B. SNMPv4
- C. SNMPv3
- D. SNMPv1

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 210**

What is the reason for switching preferred on shared segments?

- A. Switched segments provide a collision domain for each host.
- B. Switched segments provide a broadcast domain for each host
- C. Shared segments provide a broadcast domain for each host.
- D. Shared segments provide a collision domain for each host.

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 211**

Study the following options carefully. The corporate Internet is part of which functional area?

- A. Enterprise Edge
- B. Enterprise Campus
- C. Service Provider (SP) Edge
- D. Enterprise

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 212**

Which H.323 protocol is in charge of call setup and signaling?

- A. RTCP
- B. H.245
- C. G.711
- D. H.225

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 213**

How often does a RIPv1 router broadcast its routing table by default?

- A. Every 90 seconds.
- B. Every 30 seconds.

- C. Every 60 seconds.
  - D. RIPv1 does not broadcast periodically.
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**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 214**

For the following protocols, which one maps names to IPv6 addresses?

- A. Domain Name System (DNS)
- B. DNSv2
- C. Address Resolution Protocol (ARP)
- D. Neighbor discovery (ND)

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 215**

What does CDP stand for ?

- A. Collection Device Protocol
- B. Campus Discovery Protocol
- C. Cisco Device Protocol
- D. Cisco Discovery Protocol

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 216**

For the following options, which International Telecommunication Union (ITU) standard provides a framework for multimedia protocols for the transport of voice, video, and data over packet- switched networks?

- A. Weighted fair queuing (WFQ)
- B. H.323
- C. Voice over IP (VoIP)
- D. Session Initiation Protocol (SIP)

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 217**

Which feature will not transfer packets when there is silence?

- A. Ear and mouth (E&M)
- B. Voice Activity Detection (VAD)

- C. Digital Silence Suppressor (DSS)
- D. Dial peers

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 218**

What does the Cisco SLM define as the component used to specify expected performance between a pair of devices connected by a network?

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- A. CM
- B. SLC
- C. SLA
- D. SAA

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 219**

In a network with Enhanced Interior Gateway Routing Protocol (EIGRP) and IGRP using the same autonomous system number, what will happen on the router configured with both protocols?

- A. Redistribution occurs automatically.
- B. Redistribution is not necessary.
- C. EIGRP assumes IGRP is a less capable protocol and overtakes it.
- D. Redistribution does not occur automatically.

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 220**

What is the acronym PDIOO short for?

- A. Purpose, design, install, operation, optimization
- B. Purpose, design, implement, operate, optimize
- C. Plan, design, install, operation, optimization
- D. Plan, design, implement, operate, optimize

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 221**

Which item is not an SNMP operation?

- A. GetNext
- B. Community
- C. Trap
- D. Set

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 222**

Which packet-switching topology approach typically requires the greatest level of expertise to implement?

- A. Hub and spoke
- B. Point-to-point
- C. Star
- D. Partial mesh

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 223**

The network-design process is limited by many external constraints. Which origins are of these constraints?

- A. Technological, worldwide standards, social, and managerial
- B. Technological, political, social, and economical
- C. Technological, cost, social, and economical
- D. Managerial, political, social, and economical

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 224**

What does FCAPS stand for?

- A. Fault, caching, application, production, security
- B. Fault, configuration, accounting, performance, security
- C. Fiscal, communication, application, production, security
- D. Fault, consolidation, accounting, performance, security

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 225**

What is DHCP?

- A. Dynamic Host Configuration Protocol
- B. Dedicated Host Configuration Protocol
- C. Dynamic Host Control Protocol
- D. Predecessor to BOOTP

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### QUESTION 226

Which answer is correct about routing metrics?

- A. If the metric is cost, the path with the highest cost is selected.
- B. If the metric is bandwidth, the path with the highest bandwidth is selected.
- C. If the metric is bandwidth, the path with the lowest bandwidth is selected.
- D. If the metric is bandwidth, the highest sum of the bandwidth is used to calculate the highest

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### QUESTION 227

Where do you put DNS and DHCP on Enterprise model? Select two.

- A. Enterprise campus Server Farm Module
- B. Enterprise edge
- C. SP Edge Premise  
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- D. Enterprise Branch

**Correct Answer:** AD

**Section:** (none)

**Explanation**

#### QUESTION 228

Which two of these are functions of an access point in a Split MAC Network Architecture? (Choose two.)

- A. EAP Authentication
- B. MAC layer encryption or decryption
- C. 802.1Q encapsulation
- D. Process probe response

**Correct Answer:** BD

**Section:** (none)

**Explanation**

#### QUESTION 229

Data link switching is typically 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

**Section:** (none)

**Explanation**

**QUESTION 230**

Which three of these are components of the North American Numbering Plan? (Choose three.)

- A. Numbering Plan Area
- B. country code
- C. prefix
- D. zone
- E. line number
- F. trunk channel

**Correct Answer:** ACE

**Section:** (none)

**Explanation**

**QUESTION 231**

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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 232**

Which network management protocol allows a network device to have vendor-specific objects for management?

- A. SNMP v1
- B. SNMP v2
- C. SNMP v3
- D. MIB
- E. RMON1
- F. RMON2

**Correct Answer:** D

**Section:** (none)

## Explanation

### QUESTION 233

Which two solutions are parts of the Cisco Security Management Suite? (Choose two.)

- A. ASA
- B. Cisco Security Agent
- C. NAC Appliance
- D. csm
- E. pix
- F. Cisco Security MARS

**Correct Answer:** DF

**Section:** (none)

**Explanation**

### QUESTION 234

When monitoring voice traffic on a converged network, which are the three most important QoS characteristics to pay attention to? (Choose three.)

- A. delay
- B. jitter
- C. packet loss
- D. bit error rate
- E. CRTP hop configuration

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

### QUESTION 235

An internal network has servers with private IPv4 addresses that must be visible from the public network. Which kind of address translation should be used to ensure this?

- A. many-to-one translation (PAT)
- B. many-to-one translation (Dynamic NAT)
- C. one-to-one translation (Static NAT)
- D. one-to-one translation (NAT Traversal)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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### QUESTION 236

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

**Section:** (none)

**Explanation**

#### **QUESTION 237**

Which of the following is a modular component within the Cisco Enterprise Campus module in the Cisco Enterprise Architecture framework?

- A. Teleworker
- B. E-Commerce
- C. Internet Connectivity
- D. Building Distribution
- E. WAN/MAN Site-to-Site VPN

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 238**

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

existing Cisco ACS 4.0  
Cisco Catalyst switches  
minimal added investments

Which Cisco Trust and Identity solution would you recommend?

- A. NAC Appliance (Cisco Clean Access)
- B. Cisco IBNS
- C. NAC Framework
- D. Cisco Security Agent
- E. csm
- F. Cisco Security MARS

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 239**

Which two design methodology steps relate, at least in part, to the implement phase of the PPDIOO process? (Choose two.)

- A. verifying the network
  - B. testing design
  - C. determining customer requirements
  - D. characterizing the existing network
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E. establishing the organizational requirements

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**QUESTION 240**

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

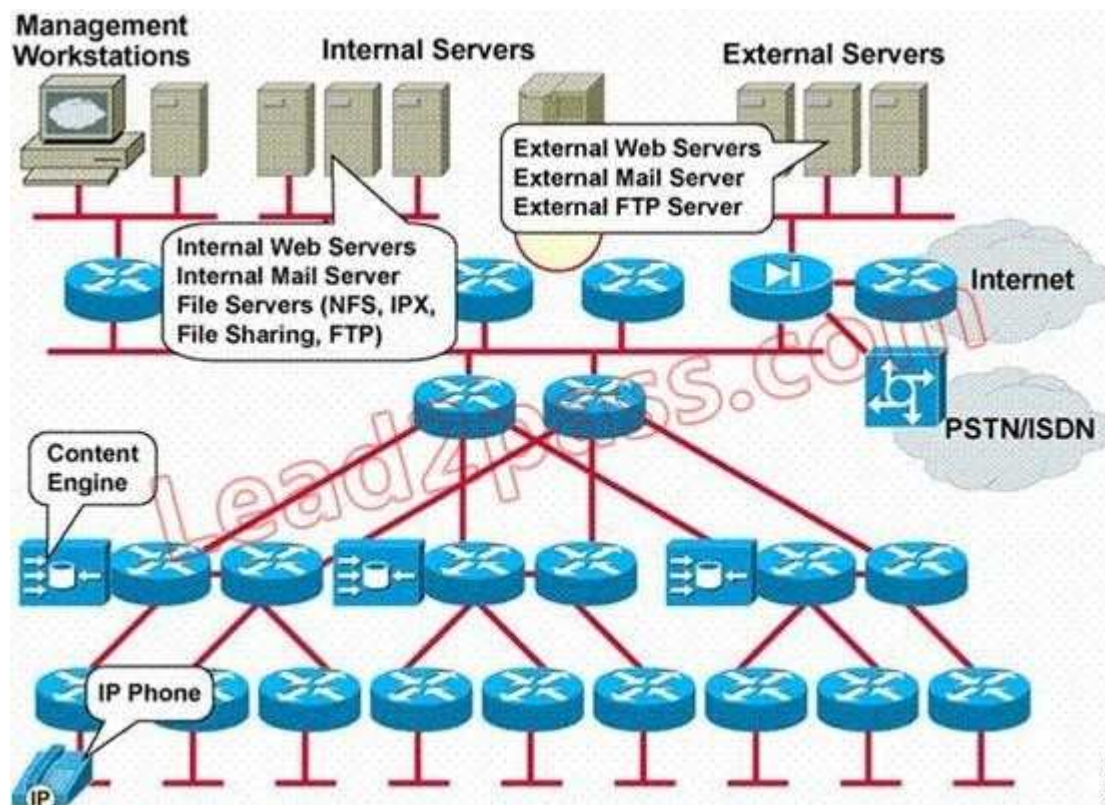
**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 241**

Refer to the exhibit. Which element or elements of the existing network infrastructure does this network map emphasize?



- A. network services
- B. network protocols
- C. the OSI data link layer
- D. network applications

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 242**

The BodMech online fitness organization specializes in creating fitness plans for senior citizens. The company recently added a health-products retail inventory. Which E-Commerce module device will allow customers to interact with the company and purchase products?

- A. application server
- B. database server
- C. public server
- D. web server
- E. NIDS appliance
- F. SMTP mail server

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 243**

Which two of the following are benefits of using a modular approach to network design? (Choose two.)

- A. improves flexibility
- B. facilitates implementation
- C. lowers implementation costs
- D. improves customer participation in the design process

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**QUESTION 244**

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

- 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

**Section:** (none)

**Explanation**

**QUESTION 245**

Which two routing protocols usually converge most quickly? (Choose two.)

- A. RIPv1
- B. RIPv2
- C. BGP
- D. IGRP
- E. EIGRP
- F. OSPF

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**Correct Answer:** EF

**Section:** (none)

**Explanation**

**QUESTION 246**

Which two wireless attributes should be considered during a wireless site survey procedure? (Choose two.)

- A. encryption
- B. channel
- C. authentication
- D. power
- E. SSID

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**QUESTION 247**

When designing using the Cisco Enterprise Architecture, in which Enterprise Campus layer does the Enterprise Teleworker module establish its connection?

- A. Building Core
- B. Building Access
- C. Enterprise Branch
- D. Enterprise Data Center
- E. WAN/Internet

**Correct Answer:** E

**Section:** (none)

**Explanation**

**QUESTION 248**

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

- A. Application
- B. Physical
- C. Presentation
- D. Integrated Transport
- E. Interactive Services

F. Networked Infrastructure

**Correct Answer:** AEF

**Section:** (none)

**Explanation**

**QUESTION 249**

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:**

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**QUESTION 250**

You are performing an audit of a customer's existing network and need to obtain the following router information:

Interfaces  
running processes  
IOS image being executed

Which command should you use?

- A. show version
- B. show tech-support
- C. show startup-config
- D. show running-config
- E. show processes memory

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 251**

What is the recommended spanning tree protocol to use for all Layer 2 deployments in a branch office environment?

- A. CST
- B. RSPT
- C. PVST
- D. MISTP
- E. Rapid PVST +

**Correct Answer:** E

**Section:** (none)

**Explanation**

**QUESTION 252**

Which Cisco device management feature is most suited to metering network traffic and providing data for billing network usage?

- A. BGP
- B. Cisco Discovery Protocol
- C. QoS
- D. RMON
- E. NetFlow

**Correct Answer:** E

**Section:** (none)

**Explanation**

**QUESTION 253**

Which of these domain-of-trust security statements is correct?

- A. Segments within a network should have the same trust models.
- B. An administrator should apply consistent security controls between segments.
- C. Communication between trusted entities needs to be carefully managed and controlled.  
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- D. Segment security policy decisions are based on trust.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 254**

When collecting information about a customer's existing network, which two sources will provide the most accurate data? (Choose two.)

- A. traffic analysis
- B. customer interview
- C. customer-supplied server list
- D. existing network topology diagram
- E. configurations obtained from network equipment

**Correct Answer:** AE

**Section:** (none)

**Explanation**

**QUESTION 255**

Which modules are found in the Enterprise Edge functional area of the Cisco Enterprise Architecture? Select all that apply.

- A. Teleworker

- B. WAN/MAN
- C. Server Farm
- D. E-Commerce
- E. Internet Connectivity
- F. Remote Access/VPN

**Correct Answer:** BDEF

**Section:** (none)

**Explanation**

**QUESTION 256**

A campus network needs end-to-end QoS tools to manage traffic and ensure voice quality. Which three types of QoS tools are needed? (Choose three.)

- A. interface queuing and scheduling
- B. congestion management
- C. compression and fragmentation
- D. bandwidth provisioning
- E. traffic classification
- F. buffer management

**Correct Answer:** ADE

**Section:** (none)

**Explanation**

**QUESTION 257**

Which H.323 protocol is responsible for the exchanging of capabilities and the opening and closing of logical channels?

- A. H.225
  - B. H.245
  - C. RAS
  - D. RTCP
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**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 258**

Drag and Drop Questions

Match each infrastructure service with its description.

Identity	Access from a remote location
Mobility	Improved computational resources
Storage	Unified messaging
Compute	AAA, NAC
Security	Storage of critical data
Voice/collaboration	Secure communications

A. Match each infrastructure service with its description.

	Mobility	
	Compute	
	Voice/collaboration	
	Identity	
	Storage	
	Security	

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 259

Drag and Drop Questions

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Match each access point mode with its description.

Local	For location-based services
REAP	Captures packets
Monitor	For point-to-point connections
Rogue detector	Default mode
Sniffer	Management across the WAN
Bridge	Monitors rouge Aps

A.

Match each access point mode with its description.

Monitor
Sniffer
Bridge
Local
REAP
Rogue detector

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 260

Drag and Drop Questions

Match each protocol, mechanism, or feature with its security grouping.

CSM	Identity and access control
IGP/EGP MD5	Threat detection and mitigation
NetFlow	Infrastructure protection
NAC	Security management

A.

Match each protocol, mechanism, or feature with its security grouping.

	NAC	
	NetFlow	
	IGP/EGP MD5	
	CSM	

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### QUESTION 261

Drag and Drop Questions

Match each protocol with its description.

DHCP	Transports coded voice streams
SCCP	Controls Cisco IOS gateways
RTP	Provides call signaling between Cisco IP phones and CUCM
H.323	Provides IP address
TFTP	Provides phone configuration

A.

Match each protocol with its description.

	RTP	
	H.323	
Provide	SCCP	CUCM
	DHCP	
	TFTP	

**Correct Answer:** A

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 262**

Drag and Drop Question

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Match each component with its Cisco IPT functional area.

CUCM	Service applications
Layer 3 switch	Call processing
Digital gateway	Client endpoint
Unity	Infrastructure

A.

Match each component with its Cisco IPT functional area.

	Unity	
	CUCM	
	Digital gateway	
	Layer 3 switch	

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 263**

Drag and Drop Questions

Match the routing protocol with the description.

EIGRP	Distance-vector protocol used in the edge of the network
OSPFv2	IETF link-state protocol used in the network core
RIPv2	Hybrid protocol used in the network core
BGP	Path-vector protocol

A. Match the routing protocol with the description.

Distance	RIPv2	work
Hybrid	OSPFv2	e
	EIGRP	
	BGP	

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### QUESTION 264

Drag and Drop Questions

Drag the function on the left with the option most closely paired on the right.

NetFlow	Complete monitor of all OSI layers
RMON	Communication between devices and monitoring
CDP	Data Link, Multicast
SNMP	Process ACLs, packet analysis for security



A.

Drag the function on the left with the option most closely paired on the right.

NetFlow	Configuration	RMON	
RMON	Configuration	SNMP	Monitoring
CDP	Data	CDP	
SNMP	Protocol	NetFlow	

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 265

Drag and Drop Questions

Drag the function on the left with the option most closely paired on the right.

Http/Email	Application
Budget	Network Services
IP Phone/Voice	Business Constraints
Security	Technical Goals

A.

Drag the function on the left with the option most closely paired on the right.

Http/Email	Http/Email
Budget	IP Phone/Voice
IP Phone/Voice	Budget
Security	Security

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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**QUESTION 266**

Drag and Drop Questions

Drag the function on the left with the option most closely paired on the right.

VSAN/VLAN	Cisco Nexus 1000 and Enforcing VM Security
Cisco Unified Communication System	Network and Server Virtualization
Data Center Virtualization	Pending

A.

Drag the function on the left with the option most closely paired on the right.

VSAN/VLAN	Cisco Unified Communication System
Cisco Unified Communication System	VSAN/VLAN
Data Center Virtualization	Data Center Virtualization

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 267**

Drag and Drop Questions

Drag the function on the left with the option most closely paired on the right.

RMON	Defines the Communication Type
SNMP	Uses Layer 2 and Multicast
Netflow	Pending
CDP	ACL and Security Analysis

A. Drag the function on the left with the option most closely paired on the right.

RMON	Defines the	SNMP	Community Type
SNMP	Uses Layer	CDP	
Netflow	Pending	Netflow	
CDP	ACL and S	RMON	

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 268

Drag and Drop Questions

Drag the network characteristic on the left to the appropriate Access-Distribution block design on the right.

Fastest network convergence using routing	Layer 2 between Access and Distribution with Layer 2 link between the Distribution switches
Loop-free topology	Layer 2 between Access and Distribution with Layer 3 link between the Distribution switches
Uses FHRP	Layer 2 between Access and Distribution with Layer VSS link between the Distribution switches
VLANs span multiple access layer switches	Layer 3 between Access and Distribution with Layer 3 link between the Distribution switches

A. Drag the network characteristic on the left to the appropriate Access-Distribution block design on the right.

Fastest network convergence using routing	Layer 2 between Access and Distribution with Layer 2 link between the Distribution switches	Uses FHRP
Loop-free topology	Layer 2 between Access and Distribution with Layer 3 link between the Distribution switches	VLANs span multiple access layer switches
Uses FHRP	Layer 2 between Access and Distribution with Layer VSS link between the Distribution switches	Loop-free topology
VLANs span multiple access layer switches	Layer 3 between Access and Distribution with Layer 3 link between the Distribution switches	Fastest network convergence using routing

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 269**

When designing an EIGRP network, which two things should you take into consideration? (Choose two.)

- A. ASN and K values must match.  
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- B. The neighbor command can be used to enable unicast communication.
- C. The neighbor diameter cannot exceed a 15-hops limit.
- D. NSSA areas can be used to redistribute external routes.
- E. Neighbor relationship can be established with non-Cisco routers.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**QUESTION 270**

Identify the three items that pertain to EIGRP. (Choose three.)

- A. Can use multiple unequal paths.
- B. Routes are redistributed as type 2 by default.
- C. ASN and K values must match to form neighbors.
- D. Uses multicast address 224.0.0.9 for updates.
- E. Exchanges full routing table every 30 seconds.
- F. Summary routes have AD of 90.
- G. External routes have AD of 170.

**Correct Answer:** ACG

**Section:** (none)

**Explanation**

**QUESTION 271**

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**

**QUESTION 272**



Which two are characteristics of a Lightweight Access Point? (Choose two.)

- A. managed via a central wireless LAN controller
- B. code upgrade performed via a TFTP server
- C. CAPWAP tunnels
- D. managed directly via CLI or web interface
- E. facilitates the creation of its own WLANs and port mappings

**Correct Answer:** AC

**Section:** (none)

**Explanation**

#### **QUESTION 273**

What are three key areas that need to be considered when designing a remote data center? (Choose three.)

- A. power diversity  
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- B. active directory services
- C. Cisco IOS versions
- D. data storage
- E. applications
- F. user access
- G. packet routing

**Correct Answer:** ADE

**Section:** (none)

**Explanation**

#### **QUESTION 274**

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**

#### **QUESTION 275**

In which phase of PPDIOO are the network requirements identified?

- A. Design
- B. Plan
- C. Prepare
- D. Implement
- E. Operate

F. Optimize

**Correct Answer: C**

**Section: (none)**

**Explanation**

**QUESTION 276**

What is the most compact representation of the following IPv6 address?

2001:db8:0000:0000:cafe:0000:0000:1234

- A. 2001:db8::cafe::1234
- B. 2001:db8::cafe:0000:0000:1234
- C. 2001:db8:0:0:cafe::1234
- D. 2001:db8::cafe:0:1234

**Correct Answer: C**

**Section: (none)**

**Explanation**

**QUESTION 277**

Which is part of the Prepare phase of PPDIOO?

- A. Obtain site contact information  
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- B. Perform network audit
- C. Identify customer requirements
- D. Perform gap analysis

**Correct Answer: C**

**Section: (none)**

**Explanation**

**QUESTION 278**

Your supervisor has asked you to deploy a routing protocol within the lab environment that will allow for unequal cost multipath routing. Which should you choose?

- A. EIGRP
- B. OSPF
- C. IS-IS
- D. RIP

**Correct Answer: A**

**Section: (none)**

**Explanation**

**QUESTION 279**

Where in the Cisco Enterprise Architecture model does network management reside?

- A. Enterprise data center module

- B. Enterprise campus module
- C. Enterprise edge module
- D. Service Provider edge module
- E. Service Provider data center module

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 280**

Which voice codec should you use in order to provide toll quality calls?

- A. G.711
- B. G.718
- C. G.722
- D. G.729

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 281**

Which is a factor in enterprise campus design decisions?

- A. network application characteristics
- B. routing protocol characteristics
- C. switching latency characteristics
- D. packet filtering characteristics

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 282**

Which three statements are true regarding the virtual interface on a Cisco Wireless LAN Controller? (Choose three.)

- A. supports mobility management
- B. serves as a DHCP relay
- C. used for all controller to AP communication
- D. supports embedded Layer 3 security
- E. default for out-of-band management
- F. default for in-band management
- G. provides connectivity to AAA servers

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**QUESTION 283**

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**

**QUESTION 284**

Which three are security services offered through Cisco Router Security? (Choose three.)

- A. Trust and Identity
- B. Integrated Threat Control
- C. Unified Wireless Network Security Solution
- D. Secure Connectivity
- E. Voice-Messaging Security
- F. Endpoint Security
- G. Virtual Security Gateway

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**QUESTION 285**

Which layer of the OSI model does Cisco recommend to place the enterprise network core layer, when designing a network based on its switched hierarchical design?

- A. Layer 1
  - B. Layer 2
  - C. Layer 3
  - D. Layer 4
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**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 286**

Which is the purpose of the Cisco NAC Profiler?

- A. automates discovery and inventory of all LAN attached devices

- B. generates a profile based on username and group
- C. learns and creates a database of virus definitions based on LAN traffic
- D. a database used to map user VPN accounts

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 287**

In the enterprise data center, which are the three main components? (Choose three.)

- A. Network Infrastructure
- B. Interactive services
- C. Data Center Management
- D. Internet services
- E. WAN services
- F. VPN and remote access

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

#### **QUESTION 288**

You have a campus network that consists of only Cisco devices. You have been tasked to discover the device platforms, the IOS versions, and an IP address of each device to map the network. Which proprietary protocol will assist you with this task?

- A. SNMP
- B. TCP
- C. CDP
- D. ICMP
- E. LLDP

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 289**

Which two are types of network virtualization? (Choose two.)

- A. VSS: Virtual Switching System
- B. VRF: virtual routing and forwarding
- C. VCI: virtual channel identifier
- D. VLSM: variable length subnet masking
- E. VM: virtual machine
- F. VMP: Virtual Memory Pool

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 290**

Which three modular components are part of the Cisco Enterprise Edge Architecture? (Choose three.)

- A. e-commerce module
- B. Internet connectivity module
- C. server farm module
- D. remote access and VPN module
- E. PSTN services module
- F. enterprise branch module
- G. building distribution module

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**QUESTION 291**

You are tasked with designing a new branch office that will support 75 users with possible expansion in the future and will need a highly available network. Which of the branch design profiles should be implemented?

- A. large branch design
- B. medium branch design
- C. teleworker design
- D. small branch design

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 292**

Which three solutions are part of the Borderless Network Services? (Choose three.)

- A. Wireless
- B. Routing
- C. TrustSec
- D. MediaNet
- E. Switching
- F. EnergyWise
- G. Next-Gen WAN

**Correct Answer:** CDF

**Section:** (none)

**Explanation**

**QUESTION 293**

Which model of ISR is utilized for the teleworker design profile?

- A. Cisco 1900 Series

- B. Cisco 1800 Series
- C. Cisco 800 Series
- D. Cisco 500 Series

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 294**

Which Cisco technology using Nexus NX-OS infrastructure allows the network architect to create up to four separate control and data plane instances of the Nexus chassis?

- A. virtual port-channel
- B. virtual routing and forwarding
- C. virtual switching system
- D. virtual device context

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 295**

Which two can be used as a branch office WAN solution? (Choose two.)

- A. frame relay
- B. MPLS
- C. Metro Ethernet
- D. GPRS
- E. dial-up modem
- F. 3G USB modems

**Correct Answer:** BC

**Section:** (none)

**Explanation**

#### **QUESTION 296**

High availability is a key design consideration in the enterprise campus network. In a fully redundant topology, which is likely to provide faster IGP convergence during a failure?

- A. redundant supervisors
- B. redundant supervisors with Cisco Nonstop Forwarding (NSF) and Stateful Switchover (SSO)
- C. single supervisors with tuned IGP timers
- D. single supervisors

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 297**

When designing for a remote worker, which two are typical requirements? (Choose two.)

- A. best-effort interactive and low-volume traffic patterns
- B. connections to the enterprise edge using Layer 2 WAN technologies
- C. always-on connection with SLA from ISP
- D. voice and IPsec VPN support
- E. high-end security devices with stateful firewall filtering
- F. dual or multihoming to ISPs

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**QUESTION 298**

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Which three options are valid Cisco STP tools used to ensure best-practice access layer design for the enterprise campus? (Choose three.)

- A. Portfast
- B. UDLD
- C. Root Guard
- D. BPDU Guard
- E. Flex Links
- F. SPAN
- G. EtherChannel

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**QUESTION 299**

When designing a WAN backup for voice and video applications, what three types of connections should be used? (Choose three.)

- A. Private WAN
- B. internet
- C. ISDN
- D. MPLS
- E. dial-up
- F. ATM
- G. DSL
- H. MPLS

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**QUESTION 300**



Spanning Layer 2 across geographically separate data centers is a key consideration for current data center designs. Which is the name of the NX-OS technology that facilitates MAC in IP transport for Layer 2 VLANs across any IP network?

- A. Overlay Transport Virtualization
- B. Virtual Private LAN Services
- C. Generic Routing Encapsulation
- D. QinQ tunneling

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 301**

A company wants to use private IP addresses for all its internal hosts. Which technology can the company use to provide access to the Internet using a single public IP address?

- A. static NAT
- B. source routing
- C. ACL
- D. PAT

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**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 302**

Which three technologies are recommended to be used for WAN connectivity in today's Enterprise Edge designs? (Choose three.)

- A. DWDM
- B. Metro Ethernet
- C. Frame Relay
- D. MPLS VPN
- E. ISDN
- F. DSL
- G. Wireless

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

#### **QUESTION 303**

Which is usually used to connect to an upstream ISP?

- A. EIGRP
- B. OSPF
- C. BGP
- D. IS-IS

E. RIPv2

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 304**

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?

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

**Correct Answer:** CD

**Section:** (none)

**Explanation**

#### **QUESTION 305**

At which layer of the network is route summarization recommended?

- A. data link layer
- B. core layer
- C. distribution layer
- D. access layer

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 306**

Which WAN technology is a cost-effective method to deliver 100Mb of bandwidth to multiple branch offices?

- A. DSL
- B. DWDM
- C. ISDN
- D. Metro Ethernet

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 307**

Which Cisco device has the sole function at looking at threat detection and mitigation at the Enterprise edge?

- A. Cisco IOS router

- B. Cisco ASA
- C. Cisco Catalyst FWSM
- D. Cisco IPS

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 308**

If a teleworker is required to access the branch office via a secure IPSEC VPN connection, which technology is recommended to provide the underlying transport?

- A. ISDN
- B. Metro Ethernet
- C. Frame Relay
- D. ADSL
- E. ATM

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 309**

You are asked to design a new branch office that will need to support 25 users. These users will be using an ISP connection and will need to connect to the main office for network services. Which two Cisco devices are the most appropriate to fulfill all these requirements? (Choose two.)

- A. Cisco IPS
- B. Cisco ISR G2
- C. Cisco ASA
- D. Cisco 2960
- E. Cisco CRS-1
- F. Cisco ACS

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 310**

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**

**QUESTION 311**

Which four services does the architecture for Media Services contain? (Choose four.)

- A. access services
- B. transport services
- C. storage services
- D. forwarding services
- E. session control services
- F. security services
- G. filtering services
- H. remote access services

**Correct Answer:** ABCE  
**Section:** (none)  
**Explanation**

**QUESTION 312**

To provide Layer 2 connectivity between the primary and remote data centers, given that the two data centers are using Layer 3 routed DCIs, which NX-OS technology can be used to facilitate this requirement?

- A. VRF
- B. OTV
- C. MPLS
- D. SPT
- E. vPC

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**QUESTION 313**

What is the acceptable amount of one-way network delay for voice and video applications?

- A. 300 bytes
- B. 1 sec
- C. 150 ms
- D. 500 ms

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

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**QUESTION 314**

Which subnet address and mask would you use for all Class D multicast addresses to be matched within an

access list?

- A. 224.0.0.0/20
- B. 224.0.0.0/4
- C. 239.0.0.0/24
- D. 239.0.0.0/8
- E. 225.0.0.0/8

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 315**

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

**Section:** (none)

**Explanation**

#### **QUESTION 316**

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**

#### **QUESTION 317**

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

### QUESTION 318

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Cisco Identity-Based Networking Services relies heavily on the 802.1X protocol. Which other authentication solution is used hand-in-hand with 802.1X to authenticate users for network access?

- A. RADIUS
- B. LEAP
- C. IPsec
- D. TACACS
- E. ISAKMP

**Correct Answer:** A

**Section:** (none)

**Explanation**

### QUESTION 319

You are designing a network that requires a routing protocol that will use minimal network bandwidth. Which would satisfy this requirement?

- A. RIPv2
- B. RIPv6
- C. OSPF
- D. ARP
- E. EGP

**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 320

Which two devices would you place in your DMZ to ensure enterprise edge security? (Choose two.)

- A. IPS
- B. NAC
- C. ASA
- D. ACS
- E. WCS

**Correct Answer:** AC

**Section:** (none)

**Explanation**

### QUESTION 321

During which phase of the PPDIOO model would you conduct interviews with supporting staff to develop and propose a viable solution?

- A. Prepare

- B. Plan
- C. Design
- D. Implement
- E. Operate
- F. Optimize

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 322**

Which protocol is used for voice bearer traffic?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 323**

Your supervisor wants you to recommend a management protocol that will allow you to track overall bandwidth utilization, utilization by traffic type, and utilization by source and destination.

Which is ideally suited for this function?

- A. MRTG
- B. NetFlow
- C. RRD
- D. SNMP

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 324**

Which WLC interface is dedicated for WLAN client data?

- A. virtual interface
- B. dynamic interface
- C. management interface
- D. AP manager interface
- E. service port interface

**Correct Answer:** B

**Section:** (none)

## **Explanation**

### **QUESTION 325**

Which factor would be most influential in choosing multimode fiber optic connections over UTP?

- A. signal attenuation
- B. required bandwidth
- C. required distance
- D. electromagnetic interference
- E. cost

**Correct Answer: C**

**Section: (none)**

**Explanation**

### **QUESTION 326**

A hierarchical design of the EIGRP domain facilitates which two of the following? (Choose two.)

- A. route summarization  
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- B. faster convergence
- C. unequal cost load balancing
- D. redistribution
- E. virtual links

**Correct Answer: AB**

**Section: (none)**

**Explanation**

### **QUESTION 327**

Which three are associated with the distribution layer within the campus design? (Choose three.)

- A. access layer aggregation
- B. route summarization
- C. network trust boundary
- D. next-hop redundancy
- E. layer 2 switching
- F. port security
- G. broadcast suppression

**Correct Answer: ABD**

**Section: (none)**

**Explanation**

### **QUESTION 328**

Which two methods are used to reduce the mesh links required between iBGP peers in the same AS? (Choose two.)

- A. community



- B. router reflectors
- C. local preference
- D. confederations
- E. atomic aggregate
- F. MED

**Correct Answer:** BD

**Section:** (none)

**Explanation**

#### **QUESTION 329**

Which network virtualization technology involves creating virtual routers with its own individual routing tables on a physical router?

- A. VSS
- B. vPC
- C. VRF
- D. VLAN

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 330**

Which protocol is used to reserve bandwidth for the transport of a particular application data flow across the network?

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- A. cRTP
- B. IEEE 802.1P
- C. RSVP
- D. LFI
- E. Auto QOS

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 331**

Which of the following three options represents the components of the Teleworker Solution? (Choose three.)

- A. Cisco Unified IP Phone
- B. Cisco 880 Series Router
- C. Aironet Office Extend Access Point
- D. Catalyst 3560 Series Switch
- E. Cisco 2900 Series Router
- F. MPLS Layer 3 VPN
- G. Leased lines

**Correct Answer:** ABE

**Section:** (none)

**Explanation**

**QUESTION 332**

Which two features are supported by single wireless controller deployments? (Choose two.)

- A. automatic detection and configuration of LWAPPs
- B. LWAPP support across multiple floors and buildings
- C. automatic detection and configuration of RF parameters
- D. Layer 2 and Layer 3 roaming
- E. controller redundancy
- F. mobility groups

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**QUESTION 333**

Which three describe challenges that are faced when deploying an environment for teleworkers? (Choose three.)

- A. supporting a mix of technically knowledgeable and nontechnical users
- B. simplifying router installation and configuration
- C. verifying available power at employee's house for necessary equipment
- D. avoiding situations where employees might use nonstandard hardware or configurations
- E. reducing daily commuting time to main office location
- F. providing access to FTP servers located in main office location
- G. implementing leased line connectivity between main office and employee's home location

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 334**

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

**Section:** (none)

**Explanation**

**QUESTION 335**

Characterizing an existing network requires gathering as much information about the network as possible. Which of these choices describes the preferred order for the information-gathering process?

- A. site and network audits, traffic analysis, existing documentation and organizational input
- B. existing documentation and organizational input, site and network audits, traffic analysis
- C. traffic analysis, existing documentation and organizational input, site and network audits
- D. site and network audits, existing documentation and organizational input, traffic analysis

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 336**

Which of the following is a component within the Cisco Enterprise Campus module?

- A. Teleworker
- B. E-Commerce
- C. Internet Connectivity
- D. Building Distribution
- E. WAN/MAN Site-to-Site VPN

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 337**

The evolution of the Data Center is best represented by the 3.0 architecture component of virtualization. Which of the following is not an example of the virtualization taking place in the Data Center?

- A. Virtualized media access utilizing Fibre Channel over Ethernet
- B. VLANs and virtual storage area networks (VSANs) provide for virtualized LAN and SAN connectivity, separating physical networks and equipment into virtual entities
- C. Virtual Machines that run an application within the client operating system, which is further virtualized and running on common hardware
- D. Storage devices virtualized into storage pools, and network devices are virtualized using device contexts

**Correct Answer:** A

**Section:** (none)

**Explanation**

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**QUESTION 338**

Which three types of WAN topologies can be deployed in the Service Provider Module? (Choose three.)

- A. ring
- B. star
- C. full mesh

- D. core/edge
- E. collapsed core
- F. partial mesh

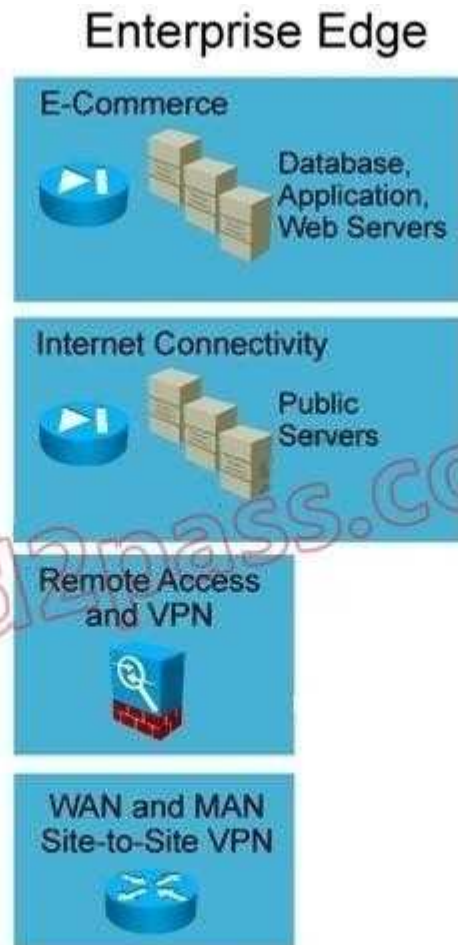
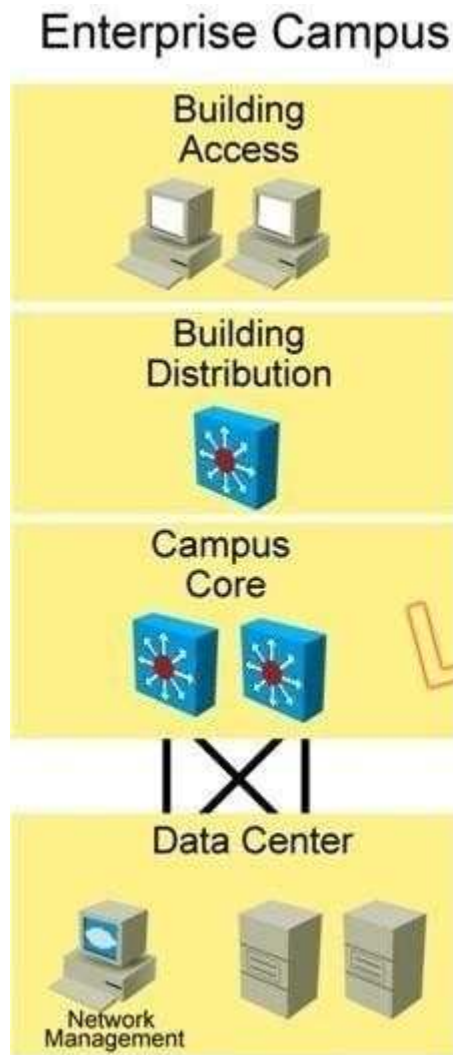
**Correct Answer:** BCF

**Section:** (none)

**Explanation**

**QUESTION 339**

Refer to the exhibit. Which three modules would typically utilize public IPv4 addressing? (Choose three.)



- A. Access
- B. Distribution
- C. Core
- D. Data Center
- E. E-Commerce
- F. Internet Connectivity
- G. Remote Access/VPN
- H. WAN/MAN

- I. Branch
- J. Branch Data Center

**Correct Answer:** EFG

**Section:** (none)

**Explanation**

**QUESTION 340**

You need to connect to a remote branch office via an Internet connection. The remote office does not use Cisco equipment. This connection must be secure and must support OSPF. Which of the following can be used to transport data to the branch office?

- A. GRE over IPsec
- B. IPsec
- C. GRE
- D. IPsec VTI

**Correct Answer:** A

**Section:** (none)

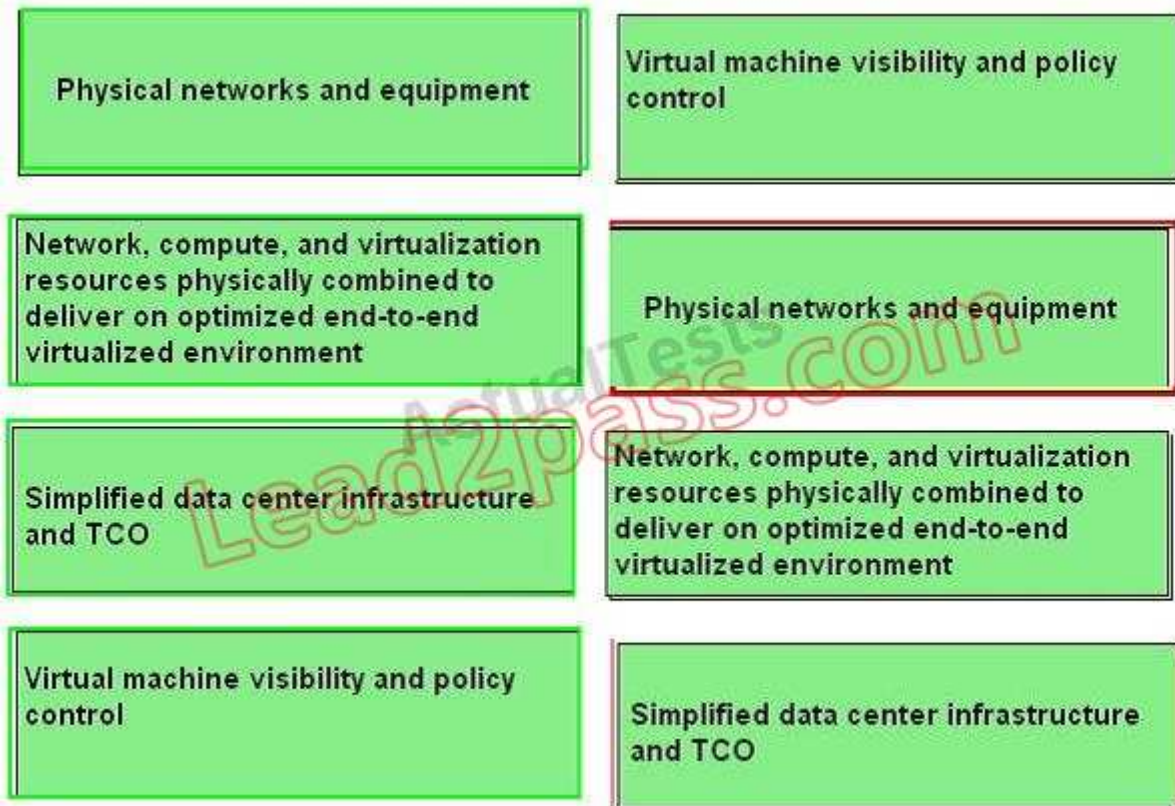
**Explanation**

**QUESTION 341**

Drag and Drop Question

Physical networks and equipment	Cisco VN-link technologies, including the Nexus 1000V virtual switch for VMware ESX
Network, compute, and virtualization resources physically combined to deliver on optimized end-to-end virtualized environment	VLANs and VSANs
Simplified data center infrastructure and TCO	Cisco Unified Computing system
Virtual machine visibility and policy control	-VSAN, virtual device contents, and unified fabric

A.



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 342

Which types of tools are used during the network design process?

- A. Network management tools
- B. Network trending tools
- C. Network modeling tools
- D. Network simulation and testing tools
- E. Network implementation tools

**Correct Answer:** CD

**Section:** (none)

**Explanation**

#### QUESTION 343

Drag and Drop Question

Click and drag the phases of the PPDIOO network lifecycle approach on the left to the their order on the right.

Plan	Phase
Design	Phase
Prepare	Phase
Operate	Phase
Optimize	Phase
Implement	Phase

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A.

Click and drag the phases of the PPDIOO network lifecycle approach on the left to the their order on the right.

Plan	P
Design	D
Prepare	Pre
Operate	Op
Optimize	O
Implement	Im

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 344**

Drag and Drop Question



The first phase of PPDI00 entails identifying customer requirements. Drag the example on the left to the associated requirement on the right.

Budget	Identify existing and planned applications
Email and HTTP	Identify existing and planned applications
Application compatibility	Define organization and applications
IP telephony and video	Define the technology
Security	Define the technology

A.

The first phase of PPDI00 entails identifying customer requirements. Drag the example on the left to the associated requirement on the right.

Budget	Email and HTTP
Email and HTTP	IP telephony and video
Application compatibility	Budget
IP telephony and video	Security
Security	Application compatibility

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 345

Drag and Drop Question

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Drag the description or characteristic on the left to the appropriate technology or protocol on the right.

provides complete network visibility from the physical layer to the application layer	SNMP
processes larger ACLs efficiently for packet filtering and security services	RMON
defines how information is exchanged between network management applications and agents	CDP
runs over the data link layer using a multicast address	NetFlow

A.

Drag the description or characteristic on the left to the appropriate technology or protocol on the right.

provides complete network visibility from the physical layer to the application layer	defines how information is exchanged between network management applications and agents
processes larger ACLs efficiently for packet filtering and security services	provides complete network visibility from the physical layer to the application layer
defines how information is exchanged between network management applications and agents	runs over the data link layer using a multicast address
runs over the data link layer using a multicast address	processes larger ACLs efficiently for packet filtering and security services

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 346

Drag and Drop Question

Drag the associated virtualization tool or solution on the left to the appropriate design requirement on the right.

VLANs and VSANs	virtual-machine visibility
Cisco Unified Computing System	simplified data center infrastructure
Cisco VN-Link technologies, including the Nexus 1000V Virtual Switch for VMware ESX	network, compute, and virtualization management to deliver an optimized end-to-end experience
VSAN, virtual device contents, and unified fabric	physical networks and equipment

A.

Drag the associated virtualization tool or solution on the left to the appropriate design requirement on the right.

VLANs and VSANs	Cisco VN-Link technologies, including the Nexus 1000V Virtual Switch for VMware ESX
Cisco Unified Computing System	VSAN, virtual device contents, and unified fabric
Cisco VN-Link technologies, including the Nexus 1000V Virtual Switch for VMware ESX	Cisco Unified Computing System
VSAN, virtual device contents, and unified fabric	VLANs and VSANs

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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