Cisco 640-864 Exam Bundle

Cisco 640-864 Exam Bundle

Exam Name: Designing for Cisco Internetwork Solutions 2011

For Full Set of Questions please visit: http://www.visualexams.com/640-864.htm

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

Explanation/Reference:

QUESTION 2
You want to gather as much detail as possible during a network audit, to include data time stamping across a large number of interfaces, customized according to interface, with a minimal impact on the network devices themselves. Which tool would you use to meet these requirements?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
Which two of these practices are considered to be best practices when designing the access layer for the enterprise campus? (Choose two)

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

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
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

Explanation/Reference:

QUESTION 5
Which of these statements is true concerning the data center access layer design?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
Which two statements about designing the Data Center Access layer are correct? (Choose two)

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

Correct Answer: CE
Section: (none)

Explanation

Explanation/Reference:

QUESTION 7
Which IPv6 feature enables routing to distribute connection requests to the nearest content server?

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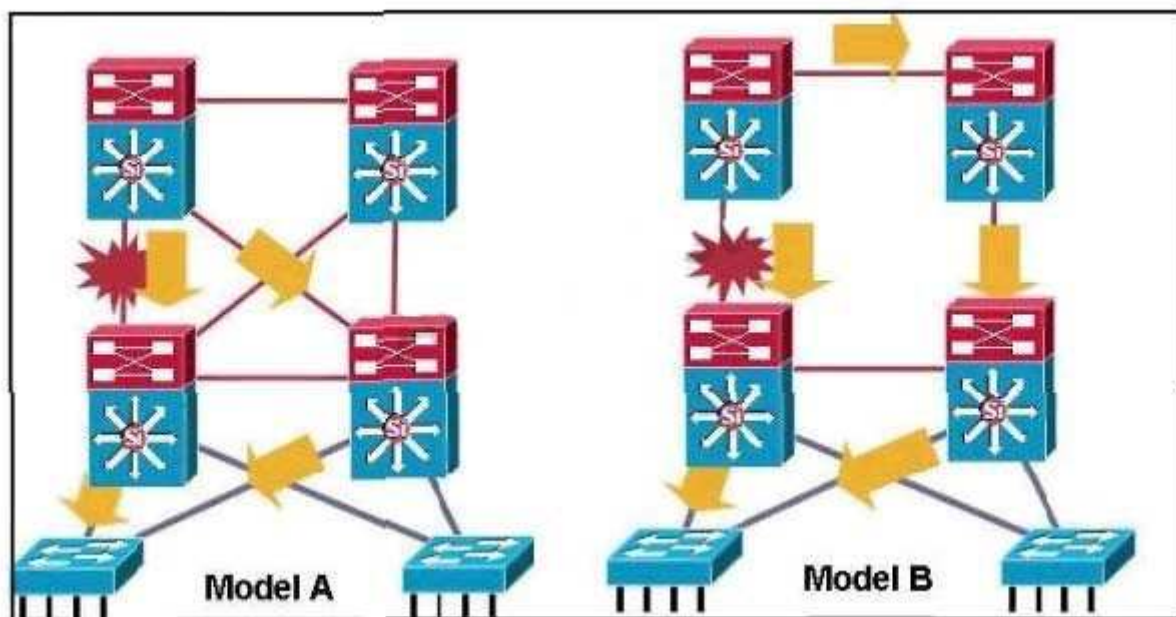D. Multicast
E. Global aggregatable

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
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. Mode A uses timer-based, providing fast convergence to the remaining path.
C. In Model A, a link or box failure does not require routing protocol convergence.
D. In Model A, the Layer 3 redundant equal cost links support fast convergence.

Correct Answer: CD
Section: (none)

Explanation

Explanation/Reference:

QUESTION 9
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

Explanation/Reference:

QUESTION 10
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

Explanation/Reference:

QUESTION 11
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

Explanation/Reference:

QUESTION 12
In terms of remote office design, which one of these statements is a characteristics only of a small remote

office (up to 50 user), and not of medium or remote offices?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
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:

QUESTION 14
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

Explanation/Reference:

QUESTION 15
When designing the infrastructure protection portion for the enterprise edge, which of these solutions would be the most appropriate solution to consider?

A. 802. IX
B. ACLs in the core layer

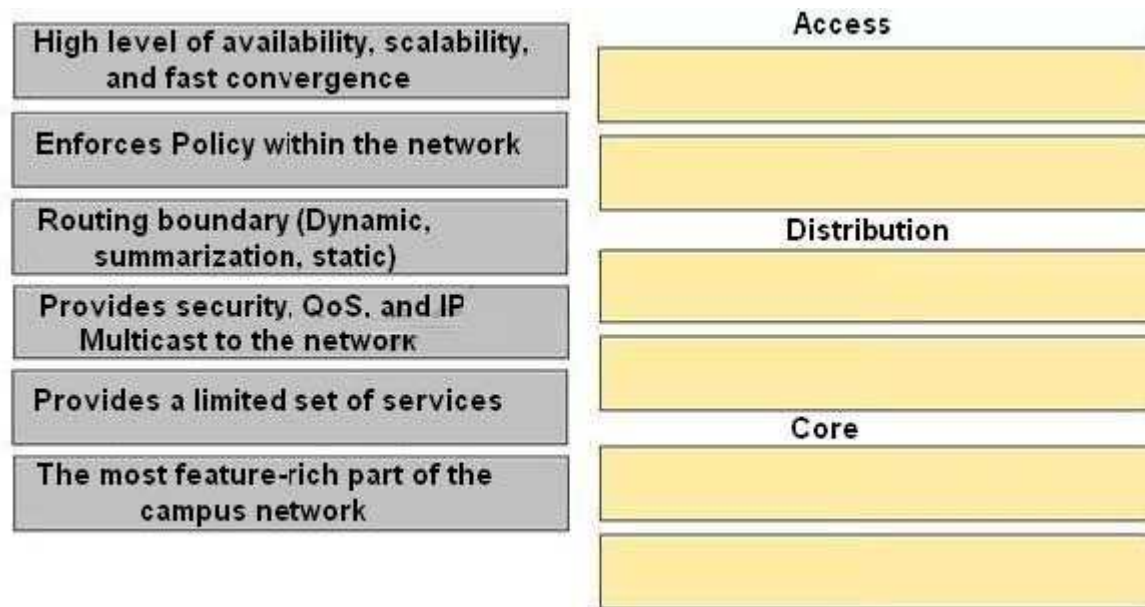C. Cisco Security MARS
D. AAA

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
DRAG DROP
Drag the characteristics of the traditional campus network on the left to the most appropriate hierarchical network layer on the right.

High level of availability, scalability, and fast convergence	Access
Enforces Policy within the network	
Routing boundary (Dynamic, summarization, static)	Distribution
Provides security, QoS, and IP Multicast to the network	
Provides a limited set of services	
The most feature-rich part of the campus network	Core

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

High level of availability, scalability, and fast convergence	Access
	The most feature-rich part of the campus network
Enforces Policy within the network	Provides security, QoS, and IP Multicast to the network
	Distribution
Routing boundary (Dynamic, summarization, static)	Routing boundary (Dynamic, summarization, static)
Provides security, QoS, and IP Multicast to the network	Enforces Policy within the network
	Core
Provides a limited set of services	High level of availability, scalability, and fast convergence
The most feature-rich part of the campus network	Provides a limited set of services

QUESTION 17
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

Explanation/Reference:

QUESTION 18
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

Explanation/Reference:

QUESTION 19

DRAG DROP

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

| Frame-Relay |
| TDM |
| SONET |
| MPLS |

Leased

Shared

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

| Frame-Relay |
| TDM |
| SONET |
| MPLS |

Leased
| TDM |
| SONET |

Shared
| Frame-Relay |
| MPLS |

QUESTION 20
DRAG DROP

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	Space
disasters, fire suppression and alarm systems	Weight Load
abundant, variable, well organized and easy to maintain	Power
amount of racks, equipment, cabling, people	Cooling
arrange equipment racks face-to-face or back-to-back	Cabling
rack servers vs blade serves	Security

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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	amount of racks, equipment, cabling, people
disasters, fire suppression and alarm systems	variable of computing load, computing power and memory requirements
abundant, variable, well organized and easy to maintain	rack servers vs blade serves
amount of racks, equipment, cabling, people	arrange equipment racks face-to-face or back-to-back
arrange equipment racks face-to-face or back-to-back	abundant, variable, well organized and easy to maintain
rack servers vs blade serves	disasters, fire suppression and alarm systems

QUESTION 21
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

Explanation/Reference:

QUESTION 22
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

Explanation/Reference:

QUESTION 23
DRAG DROP

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

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

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

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

QUESTION 24
DRAG DROP

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

Left	Right
ASA firewall context	**Network Virtualization**
IPS	
vPC	
VLAN	**Device Virtualization**
VDC	
VRF	

A.
B.
C.
D.

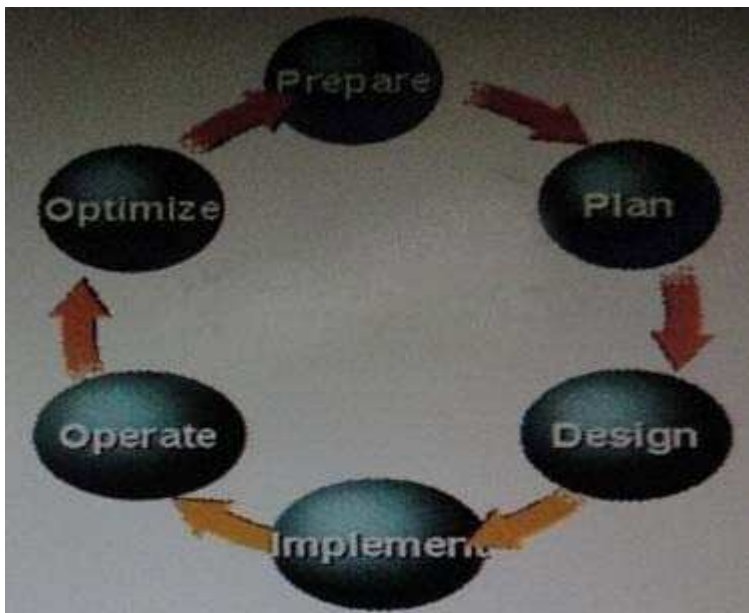**Explanation/Reference:**

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

Left		Right
ASA firewall context		**Network Virtualization**
		vPC
IPS		VLAN
vPC		VRF
VLAN		**Device Virtualization**
		ASA firewall context
VDC		IPS
VRF		VDC
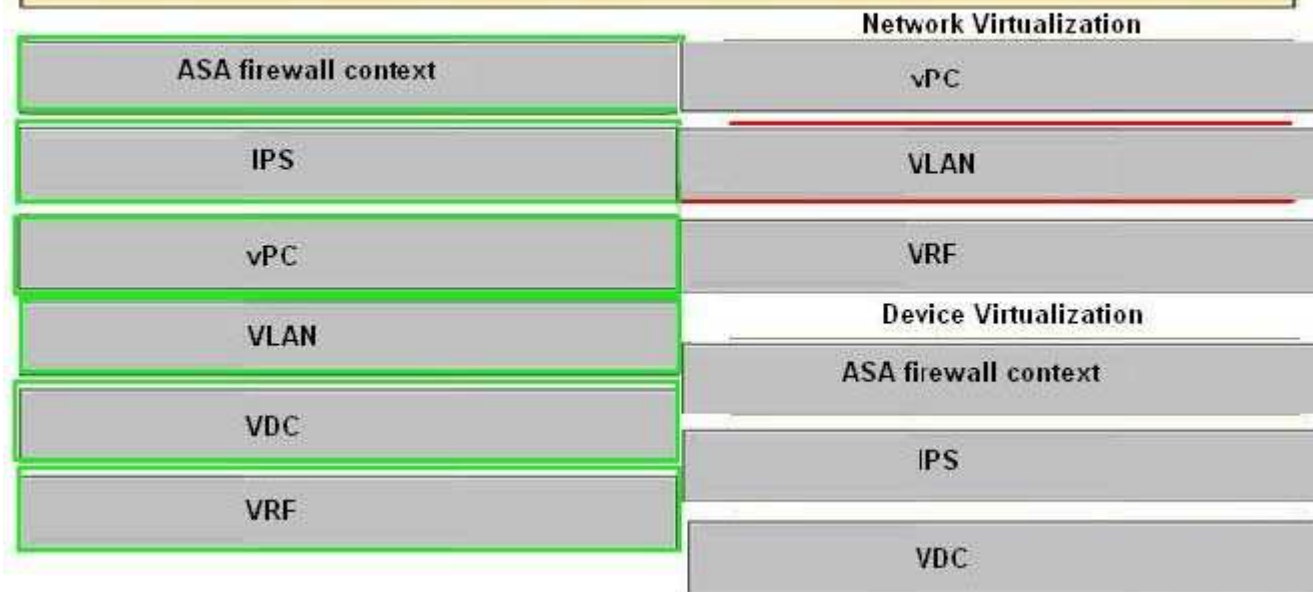
QUESTION 25
Refer to the exhibit.

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

Explanation/Reference:

QUESTION 26
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:

QUESTION 27
Which aspect would most likely be found in the draft design document?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
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

Explanation/Reference:

QUESTION 29
Which two link state routing protocols support IPv6 routing? (Choose two)

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

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
When designing the wireless portion of an enterprise campus network, which one of these statements should serve as a strict guideline?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
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 32
Which of these is the equation used to derive a 64 Kbps bit rate?

A. 2 x 8 kHz x 4-bit code words
B. 8 kHz x 8-bit code words
C. 2 x 4-bit code words x 8 kHz
D. 2 x 4 kHz x 8-bit code words

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
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.
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

Explanation/Reference:

QUESTION 34
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

Explanation/Reference:

QUESTION 35
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

Explanation/Reference:

QUESTION 36
Which codec does Cisco recommend tor WAN link?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
Refer to the exhibit.
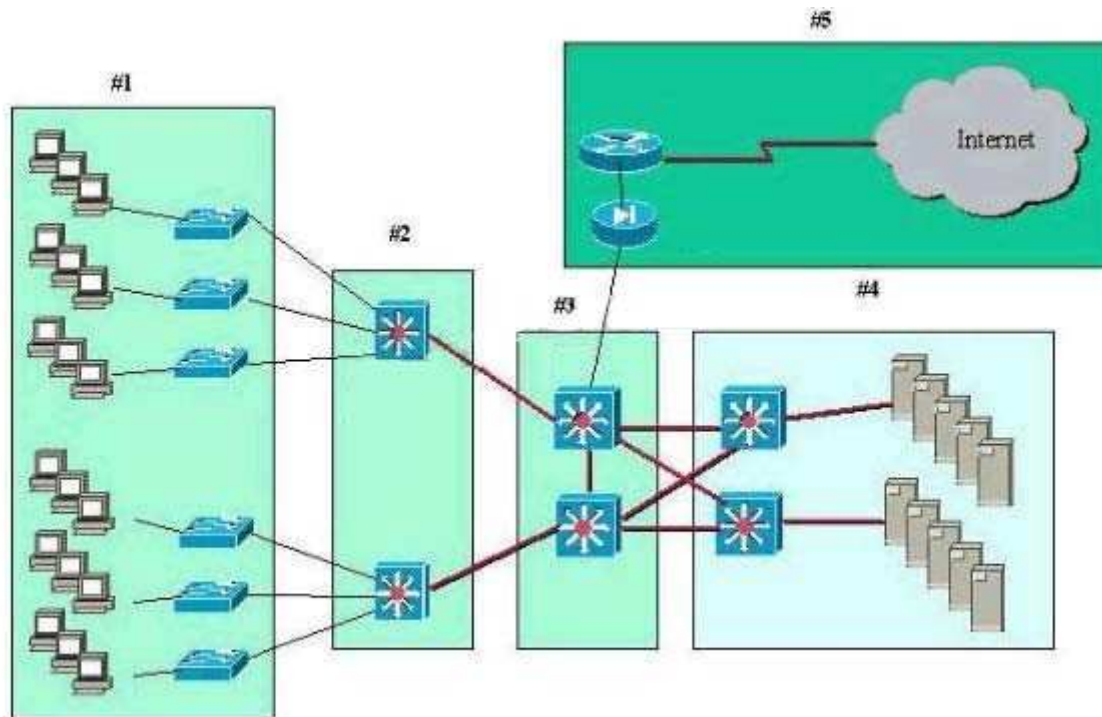
A standard, Layer 2 campus network design is pictured. Which numbered box represents the distribution layer?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
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:

QUESTION 39
The enterprise campus core layer has requirements that are unique from the distribution and access

layers. Which of the following is true about the core layer?

A. The core layer provides convergence using Layer 2 and Layer 3 services and features.
B. The core layer provides high availability to support the distribution layer connections to the enterprise edge.
C. The campus core layer is optional.
D. The core layer requires high performance to manage the traffic policing across the backbone.
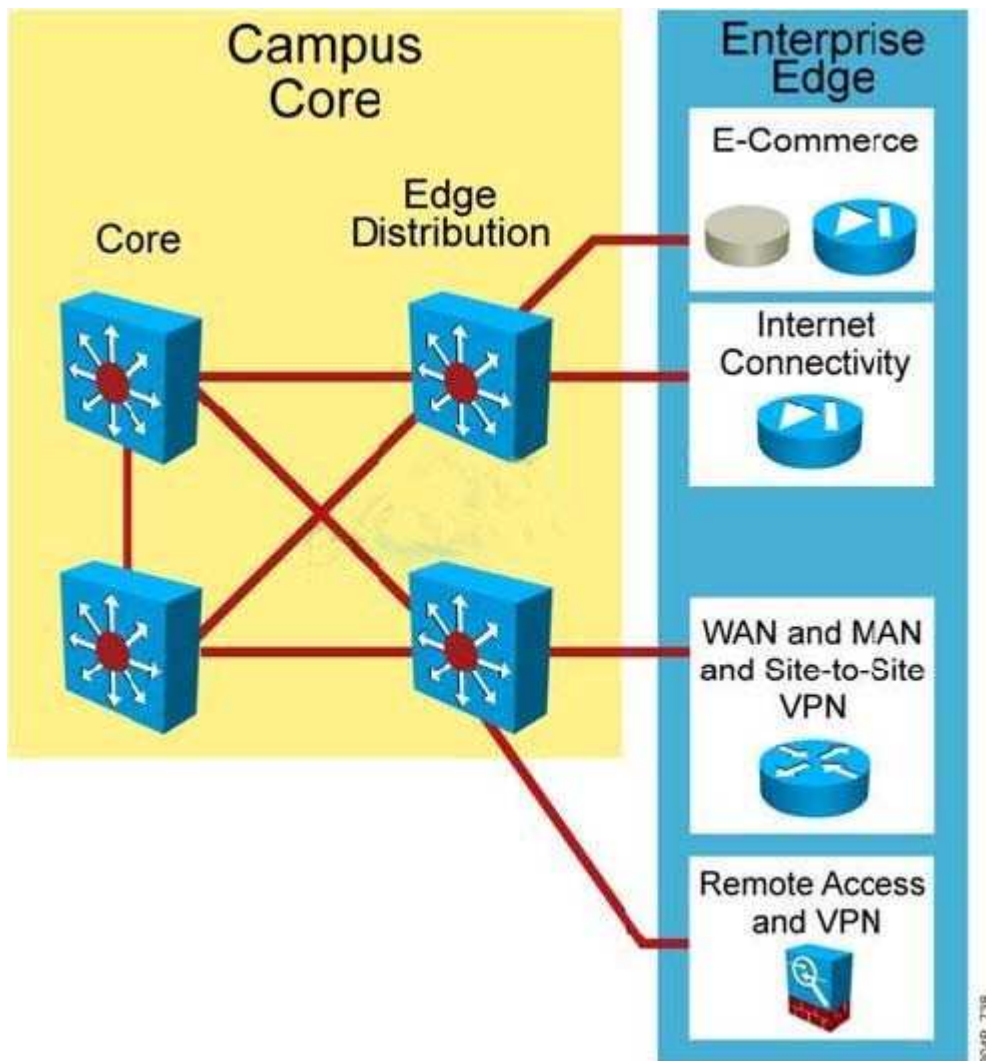
Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
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:

QUESTION 41
DRAG DROP

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.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

Left	Right
Fastest network convergence using routing	VLANs span multiple access layer switches
Loop-free topology	Uses FHRP
Uses FHRP	Loop-free topology
VLANs span multiple access layer switches	Fastest network convergence using routing

QUESTION 42

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

Correct Answer: DE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43

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

QUESTION 44
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
E. high link utilization
F. lack of speed

Correct Answer: BDF

QUESTION 45
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

QUESTION 46
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

QUESTION 47
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.
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

Explanation/Reference:

QUESTION 48
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

Explanation/Reference:

QUESTION 49
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

Explanation/Reference:

QUESTION 50
DRAG DROP

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

WRED

CAR

ACLs

LFI

LLQ

classific

conge

traff

conges

li

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

WRED

CAR

ACLs

LFI

LLQ

QUESTION 51
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
D. RMON
E. Cisco Discovery Protocol

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
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

Explanation/Reference:

QUESTION 53
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

Explanation/Reference:

QUESTION 54
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

Explanation/Reference:

QUESTION 55
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:

QUESTION 56
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

Explanation/Reference:

QUESTION 57
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

Explanation/Reference:

QUESTION 58
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

Explanation/Reference:

QUESTION 59
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

Explanation/Reference:

QUESTION 60
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

QUESTION 61
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

QUESTION 62
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"
-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

QUESTION 63
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

QUESTION 64
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.

QUESTION 65
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

QUESTION 66
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

Explanation/Reference:

QUESTION 67
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

Explanation/Reference:

QUESTION 68
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

Explanation/Reference:

QUESTION 69
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:

QUESTION 70
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

Explanation/Reference:

QUESTION 71
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

Explanation/Reference:

QUESTION 72
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

Explanation/Reference:

QUESTION 73
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.
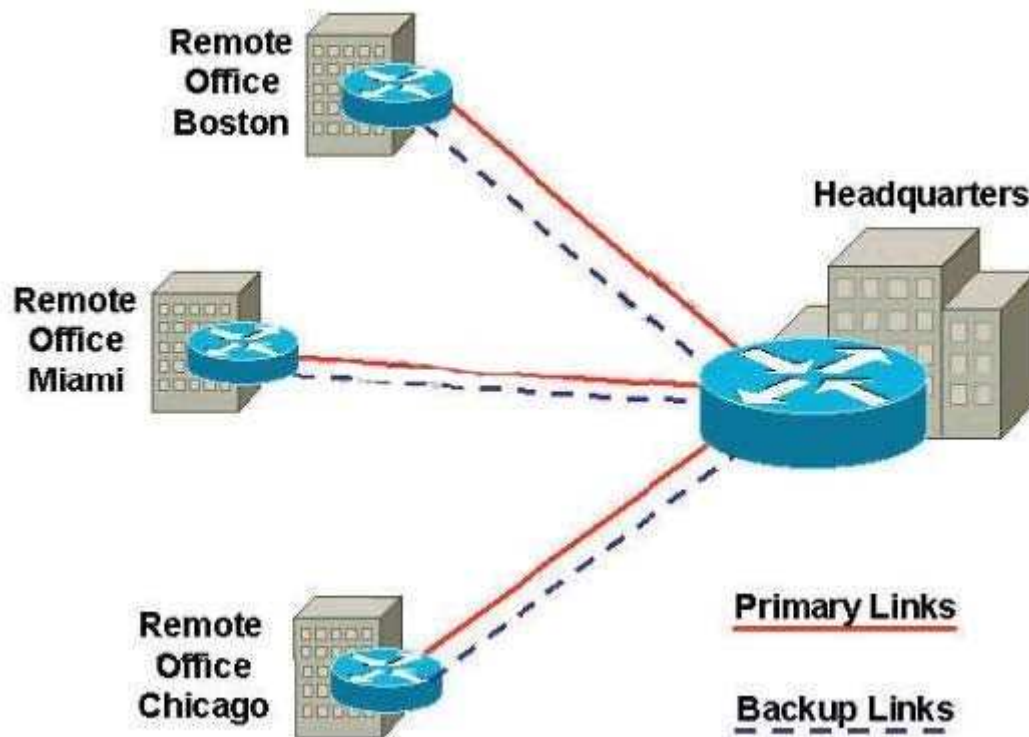
Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 74
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.)

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

D. VPDN

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 75
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

Explanation/Reference:

QUESTION 76
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

Explanation/Reference:

QUESTION 77
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

Explanation/Reference:

QUESTION 78
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

Explanation/Reference:

QUESTION 79
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
D. matching mobility group name
E. matching RF channel
F. matching RF group name

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 80
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

Explanation/Reference:

QUESTION 81
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

Explanation/Reference:

QUESTION 82
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: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 83
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
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: ABD

QUESTION 84
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

QUESTION 85
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: BD

QUESTION 86
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: D

Explanation/Reference:

QUESTION 87
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

Explanation/Reference:

QUESTION 88
DRAG DROP

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

queuing	limits the number of acknowle
window size	reduces data size optimizing the
traffic policing	allows network ad varying demands
data compression	discards packets or (such a

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

queuing

window size

traffic policing

data compression

data

tr

QUESTION 89
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

Explanation/Reference:

QUESTION 90
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
C. power requirements
D. error statistics
E. management protocols

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 91
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

Explanation/Reference:

QUESTION 92
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

Explanation/Reference:

QUESTION 93
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.

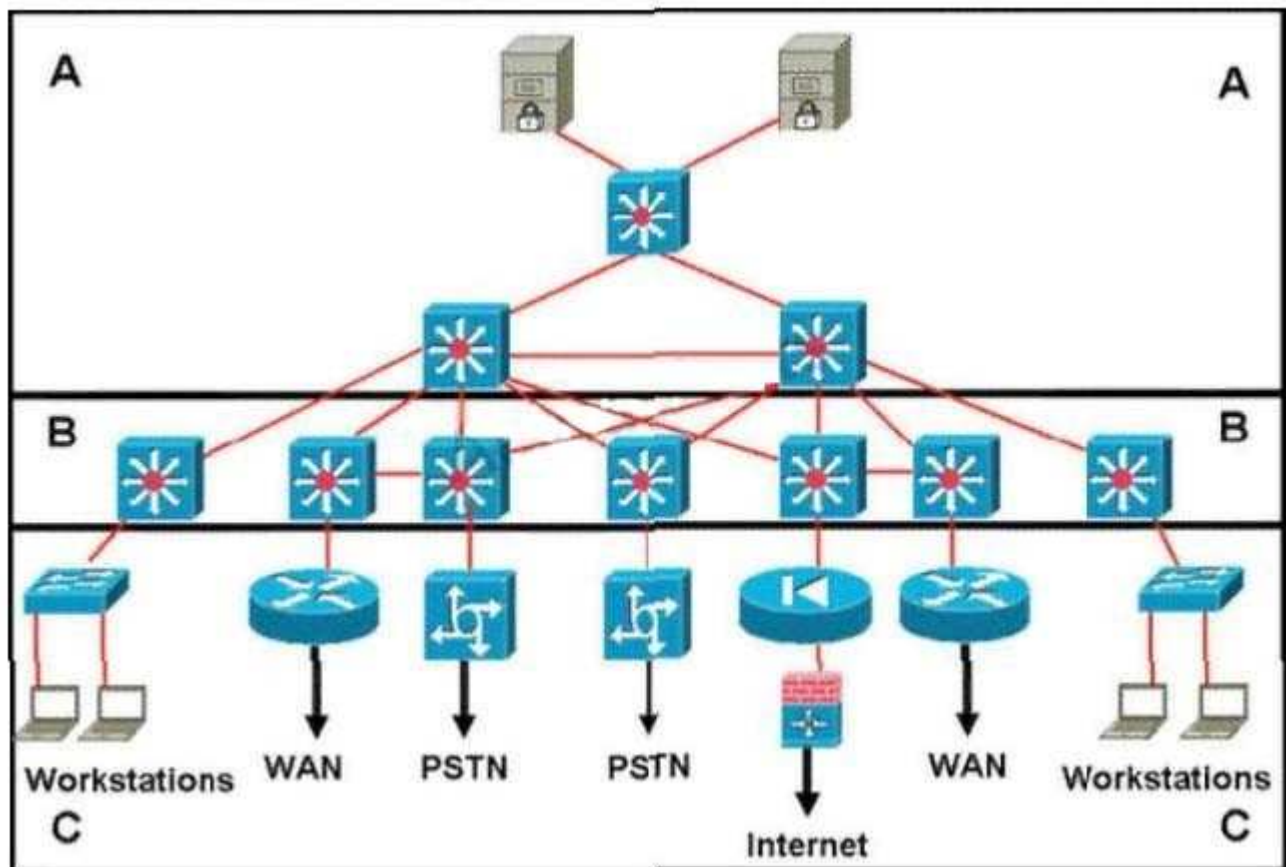**Correct Answer:** EF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 94
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.
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

Explanation/Reference:

QUESTION 95
What is the administrative distance of eBGP routes?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 96
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

Explanation/Reference:

QUESTION 97
DRAG DROP

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.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

QUESTION 98
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

Explanation/Reference:

QUESTION 99
Which address type is 225.10.1.1?

A. Unicast
B. Anycast
C. Multicast
D. Broadcast

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 100
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

Explanation/Reference:

QUESTION 101
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

Explanation/Reference:

QUESTION 102
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

Explanation/Reference:

QUESTION 103
Which types of communicating devices compose RMON architecture? (Choose two)

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

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 104
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: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 105
Which type of DSL does residential service use?

A. VDSL
B. SDSL
C. IDSL
D. ADSL

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 106
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

Explanation/Reference:

QUESTION 107
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

Explanation/Reference:

QUESTION 108
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:

QUESTION 109
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

Explanation/Reference:

QUESTION 110
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

Explanation/Reference:

QUESTION 111
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

Explanation/Reference:

QUESTION 112
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

Explanation/Reference:

QUESTION 113
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

Explanation/Reference:

QUESTION 114
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

Explanation/Reference:

QUESTION 115
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

Explanation/Reference:

QUESTION 116
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

Explanation/Reference:

QUESTION 117
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

Explanation/Reference:

QUESTION 118
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

Explanation/Reference:

QUESTION 119
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

Explanation/Reference:

QUESTION 120
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

Explanation/Reference:

QUESTION 121
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

Explanation/Reference:

QUESTION 122
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: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 123
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:

QUESTION 124
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

Explanation/Reference:

QUESTION 125
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

Explanation/Reference:

QUESTION 126
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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 127
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

Explanation/Reference:

QUESTION 128
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

Explanation/Reference:

QUESTION 129
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

Explanation/Reference:

QUESTION 130
Developing a network design according to layers such as core and distribution is an example of which type of design methodology?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 131

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

Explanation/Reference:

QUESTION 132
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

Explanation/Reference:

QUESTION 133
Which hierarchical layer has functions such as High availability, port security, and rate limiting?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 134
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 135
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 136
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

QUESTION 137
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 138
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

Explanation/Reference:

QUESTION 139
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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 140
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

Explanation/Reference:

QUESTION 141
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

Explanation/Reference:

QUESTION 142
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

Explanation/Reference:

QUESTION 143
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

Explanation/Reference:

QUESTION 144
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

Explanation/Reference:

QUESTION 145
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

QUESTION 146
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

Explanation/Reference:

QUESTION 147
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

Explanation/Reference:

QUESTION 148
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
D. Enterprise Branch

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 149
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

Explanation/Reference:

QUESTION 150
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

Explanation/Reference:

QUESTION 151
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: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 152
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

Explanation/Reference:

QUESTION 153
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

Explanation/Reference:

QUESTION 154
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

Explanation/Reference:

QUESTION 155
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

Explanation/Reference:

QUESTION 156
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

Explanation/Reference:

QUESTION 157
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

Explanation/Reference:

QUESTION 158
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

Explanation/Reference:

QUESTION 159
Which two routing protocols usually converge most quickly? (Choose two.)

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

Correct Answer: EF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 160
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

Explanation/Reference:

QUESTION 161
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

Explanation/Reference:

QUESTION 162
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

Explanation/Reference:

QUESTION 163
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

Explanation/Reference:

QUESTION 164
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

Explanation/Reference:

QUESTION 165
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

Explanation/Reference:

QUESTION 166
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

Explanation/Reference:

QUESTION 167
DRAG DROP

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

NetFlow		Compl	RMON	
RMON		Commu	SNMP	onitoring
CDP		Data L	CDP	
SNMP		Process	NetFlow	ty

QUESTION 168
DRAG DROP

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.
B.
C.
D.

Correct Answer:
Section: (none)

Explanation

Explanation/Reference:

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

RMON	Defines SNMP n Type	
SNMP	Uses La CDP	
Netflow	Pendin Netflow	
CDP	ACL an RMON	

QUESTION 169
DRAG DROP

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.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

Left:
- Http/Email
- Budget
- IP Phone/Voice
- Security

Right:
- Http/Email
- IP Phone/Voice
- Budget
- Security

QUESTION 170
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

Explanation/Reference:

QUESTION 171
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

Explanation/Reference:

QUESTION 172
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

Explanation/Reference:

QUESTION 173
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

Explanation/Reference:

QUESTION 174
When designing an EIGRP network, which two things should you take into consideration? (Choose two.)

A. ASN and K values must match.

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

Explanation/Reference:

QUESTION 175
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

Explanation/Reference:

QUESTION 176
OSPF will be used as the IGP within a campus network. Which two things should you consider before

deployment? (Choose two.)

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

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 177
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

Explanation/Reference:

QUESTION 178
What are three key areas that need to be considered when designing a remote data center? (Choose three.)

A. power diversity
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

Explanation/Reference:

QUESTION 179
Which is the North American RIR for IPv4 addresses?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 180
In which phase of PPDIOO are the network requirements identified?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 181
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

Explanation/Reference:

QUESTION 182
Which is part of the Prepare phase of PPDIOO?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 183
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

Explanation/Reference:

QUESTION 184
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

Explanation/Reference:

QUESTION 185
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

Explanation/Reference:

QUESTION 186
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:

QUESTION 187
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

Explanation/Reference:

QUESTION 188
When there is a need for immunity to EMI for connecting locations that are greater than 100 meters apart, which two solutions can be utilized? (Choose two.)

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

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 189
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

Explanation/Reference:

QUESTION 190
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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 191
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

Explanation/Reference:

QUESTION 192
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

Explanation/Reference:

QUESTION 193
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

Explanation/Reference:

QUESTION 194
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:

QUESTION 195
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

Explanation/Reference:

QUESTION 196
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

Explanation/Reference:

QUESTION 197
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

Explanation/Reference:

QUESTION 198
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:

QUESTION 199
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

Explanation/Reference:

QUESTION 200
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

Explanation/Reference:

QUESTION 201
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

Explanation/Reference:

QUESTION 202
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

Explanation/Reference:

QUESTION 203
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

Explanation/Reference:

QUESTION 204
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

Correct Answer: ACD

QUESTION 205
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

Explanation/Reference:

QUESTION 206
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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 207
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 208
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

Explanation/Reference:

QUESTION 209
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

Explanation/Reference:

QUESTION 210
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:

QUESTION 211
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

Explanation/Reference:

QUESTION 212
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

Explanation/Reference:

QUESTION 213
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

Explanation/Reference:

QUESTION 214
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:

QUESTION 215
WAN backup over the Internet is often used to provide primary connection redundancy. Which is the most important consideration when passing corporate traffic over the public Internet?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 216
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

Explanation/Reference:

QUESTION 217
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

QUESTION 218
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

QUESTION 219
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

QUESTION 220
Which three are features of LWAPP? (Choose three.)

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

Correct Answer: ADE

QUESTION 221
Which type of area should you use in an enterprise OSPF deployment if you want to prevent propagation of type 5 LSAs but still allow the redistribution of external routes?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 222
Which mode is used to exclusively look for unauthorized access points?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 223
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

Explanation/Reference:

QUESTION 224
You are designing a network that requires a routing protocol that will use minimal network bandwidth.
Which would satisfy this requirement?

A. RIPv2

B. RIPng
C. OSPF
D. ARP
E. EGP

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 225
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

Explanation/Reference:

QUESTION 226
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:

QUESTION 227
Which protocol is used for voice bearer traffic?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 228
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

Explanation/Reference:

QUESTION 229
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

Explanation/Reference:

QUESTION 230
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

Explanation/Reference:

QUESTION 231
A hierarchical design of the EIGRP domain facilitates which two of the following? (Choose two.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 232
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

Explanation/Reference:

QUESTION 233
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

Explanation/Reference:

QUESTION 234
Which protocol is used to reserve bandwidth for the transport of a particular application data flow across the network?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 235
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: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 236
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:

QUESTION 237
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

Explanation/Reference:

QUESTION 238
Which types of tools are used during the network design process?

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

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 239
DRAG DROP

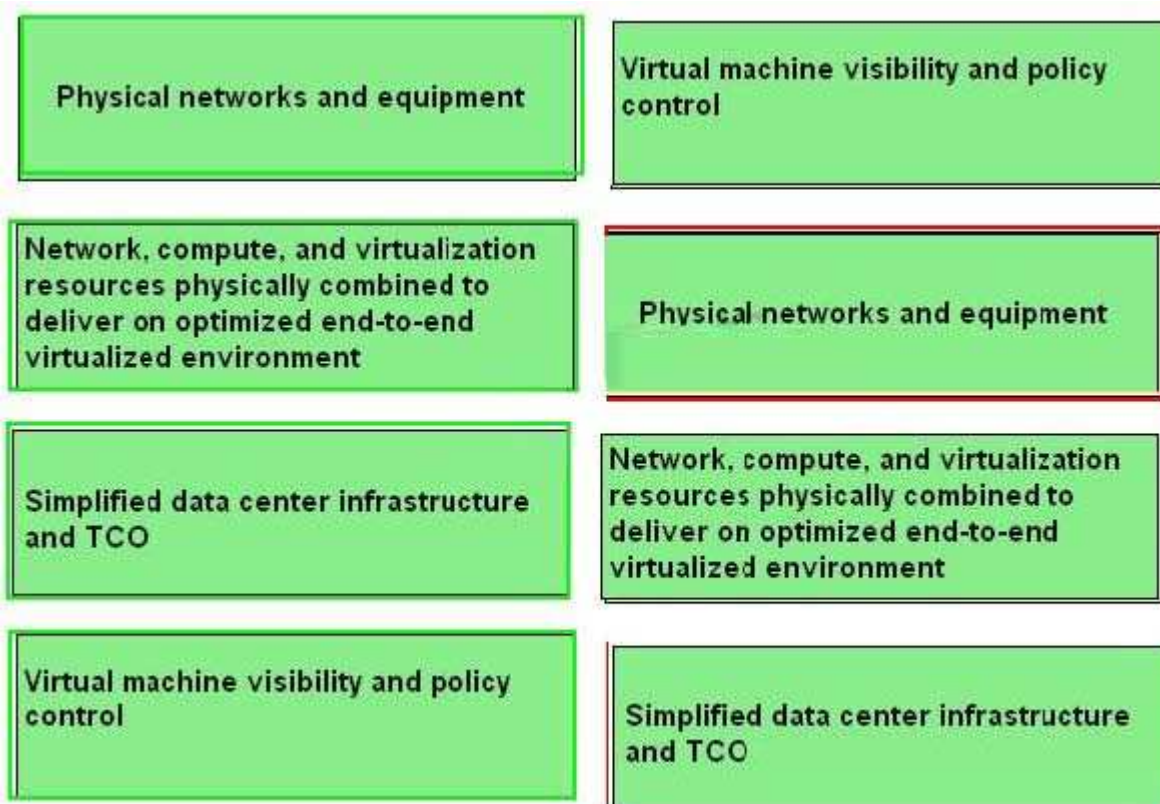|	
Physical networks and equipment	Cisco VN-link technologies, including the Nexus 1000V virtual switch for VMware ESX
Network, compute, and virtualization resources physically combined to deliver on optimized end-to-end virtualized environment	VLANs and VSANs
Simplified data center infrastructure and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

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

Physical networks and equipment	Virtual machine visibility and policy control
Network, compute, and virtualization resources physically combined to deliver on optimized end-to-end virtualized environment	Physical networks and equipment
Simplified data center infrastructure and TCO	Network, compute, and virtualization resources physically combined to deliver on optimized end-to-end virtualized environment
Virtual machine visibility and policy control	Simplified data center infrastructure and TCO

QUESTION 240
DRAG DROP

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

A.
B.
C.
D.

Correct Answer:

Explanation/Reference:

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

Plan		Prepa
Design		Plar
Prepare		Desig
Operate		Implem
Optimize		Opera
Implement		Optim

QUESTION 241
DRAG DROP

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

Budget		Identify existing and planne
Email and HTTP		Identify existing and plan
Application compatibility		Define organizatio
IP telephony and video		Define the tech
Security		Define the technic

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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

Budget		Email and
Email and HTTP		IP telephony
Application compatibility		Budg
IP telephony and video		Secu
Security		Application co

QUESTION 242
DRAG DROP

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.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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 exchange applications a
processes larger ACLs efficiently for packet filtering and security services		provides complete network visibilit application
defines how information is exchanged between network management applications and agents		runs over the data link layer us
runs over the data link layer using a multicast address		processes larger ACLs efficiently fo service

QUESTION 243
DRAG DROP

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

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

A.
B.
C.
D.

Correct Answer:
Section: (none)
Explanation

Explanation/Reference:

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