# 640-864 Questions & Answers

Number: 640-864 Passing Score: 800 Time Limit: 120 min File Version: 32.2



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## 640-864 Questions & Answers

Exam Name: Designing for Cisco Internetwork Solutions Exam (DESGN) v2.1

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

#### Certkiller

## **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:**

Explanation: Convergence is most important because with delayed convergence outage recovery will be delayed as well.

Link: http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/routed-ex.html#wp998414

#### **QUESTION 2**

You want to gather as much detail as possible during a network audit, to data time stamping across a large number of interfaces, customized include 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:**

Explanation:

NetFlow provides extremely granular and accurate traffic measurements and a high-level collection of aggregated traffic. The output of netflow information is displayed via the show ip cache flow command on routers. The Table shows a description of the fields for NetFlow output.

Table. Netflow Output escription Cisco 640-864: Practice Exam

Field	Description	
Bytes	Number of bytes of memory that are used by the NetFlow cache	
Active	Number of active flows	
Inactive	Number of flow buffers that are allocated in the Netflow cache	
Added	Number of flows that have been created since the start of the summary	
Exporting flows	IP address and UDP port number of the workstation to which flows are exported	
Flows exported	Total number of flows export and the total number of UDP datagrams	
Protocol	IP protocol and well-known port number	
Total Flows	Number of flows for this protocol since the last time that statistics were cleared	
Flows/sec	Average number of flows this protocol per second	
Packets/flow	Average number of packets per flow per second	
Bytes/pkt	Average number of bytes for this protocol	
Packets/sec	Packets/sec Average number of packets for this protocol per second	

#### **QUESTION 3**

DataQuirk is a web-based medical transcription company for exotic-animal veterinarians. The company recently added a third ISP for international business. They are organizing the enterprise network into a fully operational Enterprise Edge.

To which two modules will the three ISPs be directly related? (Choose two)

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

Correct Answer: BE Section: (none) Explanation

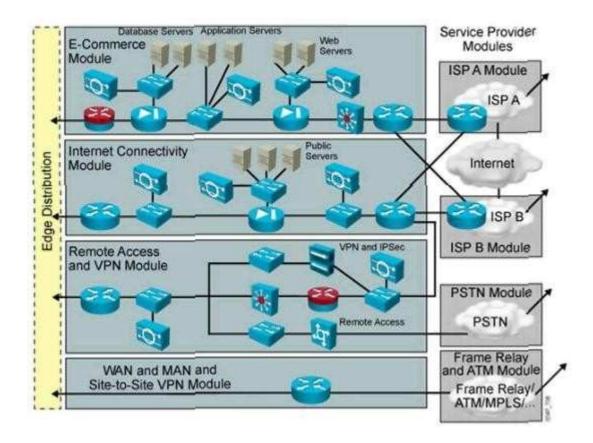
# **Explanation/Reference:**

Explanation: The purpose of ISP link is for serving customers & it is also providing internet connectivity to internal & external users, thus it falls into above 2 categories.

The Enterprise Edge Module consists of the following modules:

+ E-commerce module: includes the devices and services necessary for an organization to provide e-commerce applications.+ Internet connectivity module: provides enterprise users with Internet access.+ VPN and remote access module: terminates VPN trafc and dial-in connections Cisco 640-864: Practice Exam

from external users.+ WAN/ MAN and site-to-site module: provides connectivity between remote sites and the central site over various WAN technologies. In these modules, only E-Commerce and Internet Connectivity modules will be directly related to the three ISPs.



Link: http://leaman.org/ccna4/Chap\_1.pdf

#### **QUESTION 4**

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

- A. Implement all of the service (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:**

Explanation:

When designing the building access layer, you must consider the number of users or ports required to size up the LAN switch. Connectivity speed for each host should also be considered.

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Hosts might be connected using various technologies such as Fast Ethernet, Gigabit Ethernet, or port channels. The planned VLANs enter into the design.

Performance in the access layer is also important. Redundancy and QoS features should be considered. The following are recommended best practices for the building access layer:

- · Limit VLANs to a single closet when possible to provide the most deterministic and highly available topology.
- · Use Rapid Per-VLAN Spanning Tree Plus (RPVST+) if STP is required. It provides the faster convergence than traditional 802.1d default timers.
- · Set trunks to ON and ON with no-negotiate.
- · Manually prune unused VLANs to avoid broadcast propagation (commonly done on the distribution switch).
- · Use VLAN Trunking Protocol (VTP) Transparent mode, because there is little need for a common VLAN database in hierarchical networks.
- · Disable trunking on host ports, because it is not necessary. Doing so provides more security and speeds up PortFast.
- · Consider implementing routing in the access layer to provide fast convergence and Layer 3 load balancing.
- Use the switchport host commands on server and end-user ports to enable PortFast and disable channeling on these ports.
- · Use Cisco STP Toolkit, which provides
- · PortFast: Bypass listening-learning phase for access ports · Loop Guard: Prevents alternate or root port from becoming designated in absence of bridge protocol data units (BPDU)
- · Root Guard: Prevents external switches from becoming root · BPDU Guard: Disables PortFast-enabled port if a BPDU is received Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 3, Page 85

#### **QUESTION 5**

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



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

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation: With Layer 2 / 3, capabilities in-built access layer switches can have data & voice VLANs with interfaces; this is helpful in improving routing convergence.

Link:

http://www.cisco.com/application/pdf/en/us/guest/netsol/ns432/c649/ccmigration\_09186a00805fcc bf.pdf

#### **QUESTION 6**

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

- A. one-way router redistribution avoids the requirement for state or default routes.
- B. Redistribution, summarization, and filtering are most often applied between the campus core and enterprise edge.
- C. Filtering only occurs on the routing domain boundary using redistribution.

D. Summarize routes at the core toward the distribution layer.

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E. The hierarchical flexibility of IPv6 addressing avoids the requirements for routing traffic reduction using aggregation.

Correct Answer: B Section: (none) Explanation

### **Explanation/Reference:**

**Explanation:** 

Answer A is incorrect as a default route is still required Answer B & D are incorrect as Redistribution, summarization, and filtering are used in the Distribution Layer Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 1, Page 36 37

Answer C is incorrect as route filter can occur at either a routing domain boundary or at a routing redistribution point. Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter Answer E is correct as IPv6 allow the aggregation (summarization) of routing prefixes to reduction of the number of routes in the global routing table. Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 9

Note: Core Layer

The core layer is the network's high-speed switching backbone that is crucial to corporate communications. It is also referred as the backbone. The core layer should have the following characteristics:

#### Distribution Layer

The network's distribution layer is the isolation point between the network's access and core layers. The distribution layer can have many roles, including implementing the following functions:

You can use several Cisco IOS Software features to implement policy at the distribution layer: Route Filtering

Filtering of routes can occur on either a redistribution point or in the routing domain to prevent some parts of the network from accessing other sections of the network.

Filtering at a redistribution point provides the following:

#### Global Aggregatable IPv6 Address

Global aggregatable unicast addresses allow the aggregation of routing prefixes. This allows a reduction of the number of routes in the global routing table. These addresses are used in links to aggregate (summarize) routes upwards to the core in large organizations or to ISPs. Global aggregatable addresses are identified by the fixed prefix of 2000:/3. As shown in Figure 9-5, the format of the global aggregatable IPv6 address is a global routing prefix starting with binary 001, followed by the subnet ID and then the 64-bit interface identifier (ID). The device MAC address is normally used as the interface ID.

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#### **QUESTION 7**

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

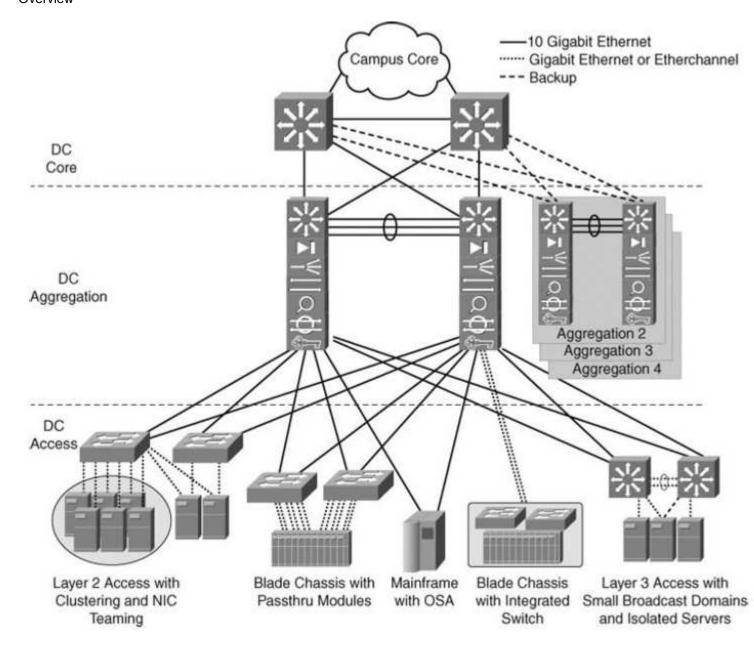
- A. Multiport NIC servers should each have their own IP address
- B. Layer 3 connectivity should never be used in the access layer
- C. Layer 2 connectivity is primarily implemented in the access layer
- D. Multiport NIC servers should never be used in the access layer
- E. Layer 2 clustering implementation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

Correct Answer: CE Section: (none) Explanation

## **Explanation/Reference:**

Explanation: User access is primarily layer 2 in nature, layer 2 clustering is possible only in layer Here is the

explanation from the Cisco press CCDA certification guide Figure 4-8. Enterprise Data Center Infrastructure Overview



# Defining the DC Access Layer

The data center access layer's main purpose is to provide Layer 2 and Layer 3 physical port density for various servers in the data center. In addition, data center access layer switches Cisco 640-864: Practice Exam

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

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

## **QUESTION 8**

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:**

Explanation: Anycast is a network addressing and routing methodology in which datagrams from a single sender are routed to the topologically nearest node in a group of potential receivers all identified by the same destination address.

Link: http://en.wikipedia.org/wiki/Anycast

#### **QUESTION 9**

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

- A. The reliability and speed of DSL allow for cost savings by not including redundant links.
- B. CAMDM and dark fiber offer advanced redundancy features such as automatic backup and repair mechanism to cope system faults.
- C. An SLA is one way to eliminate the need for redundancy.
- D. The failure of a single SONET/SDH link or network element does not lead to failure of the entire network. Cisco 640-864: Practice Exam

Correct Answer: D Section: (none) Explanation

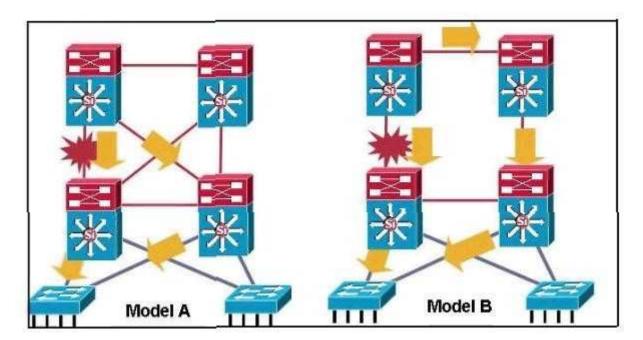
#### **Explanation/Reference:**

Explanation: Dual-Ring topologies are being used in WAN environment.

Link: http://en.wikipedia.org/wiki/Ring network

## **QUESTION 10**

Refer to the exhibit.



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

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

Explanation: Due to redundant links in place the routing protocols can select multiple equal cost paths and installs them as soon as one of the links goes down, such topology also can support load-balancing.

http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/HA\_campus\_DG/hacampusdg.ht ml

#### **QUESTION 11**

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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:**

Explanation: If data center is at enterprise campus there will be no need for installing high capacity WAN links, just an upgrade if existing WAN infrastructure can accommodate increased traffic demands. There are many more such considerations while designing data centers.

Link:

http://www.cisco.com/en/US/solutions/ns340/ns414/ns742/ns743/ns994/landing\_dc\_infrastructure.html

#### **QUESTION 12**

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

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

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

Correct Answer: A Section: (none) Explanation

## **Explanation/Reference:**

Explanation: Dual-stack is the preferred, most versatile way to deploy IPv6 in existing IPv4 environments. IPv6 can be enabled wherever IPv4 is enabled along with the associated features Cisco 640-864: Practice Exam

required to make IPv6 routable, highly available, and secure. In some cases, IPv6 is not enabled on a specific interface or device because of the presence of legacy applications or hosts for which IPv6 is not supported. Inversely, IPv6 may be enabled on interfaces and devices for which IPv4 support is no longer needed. Link: http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/CampIPv6.html#wp389920

#### **QUESTION 13**

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

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

Correct Answer: D Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: Static routing reduces the complexity and is best way of routing when there are no redundant paths to be maintained.

Link: http://oreilly.com/catalog/cisco/chapter/ch05.html

## **QUESTION 14**

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

Correct Answer: B Section: (none)

## **Explanation**

#### **Explanation/Reference:**

Explanation:

Answer A is incorrect as EtherChannel connectivity to the ISR Router is an option for this design. EtherChannel (Link Aggregation) is built on link redundancy Answer C is incorrect as there can be loops contained within the design but they will be blocked by default with Rapid PVST+

Answer D is incorrect as DHCP, firewall, and NAT are supported in the small office Cisco 640-864: Practice Exam

#### Small Branch Design

The small branch design is recommended for branch offices that do not require hardware redundancy and that have a small user base supporting up to 50 users. This profile consists of an access router providing WAN services and connections for the LAN services. The access router can connect the Layer 2 switch ports in one of three ways:

Integrated Layer 2 switching using an optional EtherSwitch module that provides 16 to 48 Ethernet ports for client connections. Some modules support PoE.

External Layer 2 switching using a trunk connection to an access switch that aggregates the Ethernet connections. The access switch can also include PoE to support IP phones and wireless APs.

Logical EtherChannel interface between the ISR and the access switches using the EtherSwitch module. The access switches can also provide PoE as needed.

The Layer 3 WAN services are based on the WAN and Internet deployment model. A T1 is used for the primary link, and an ADSL secondary link is used for backup. Other network fundamentals are supported, such as EIGRP, floating static routes, and QoS for bandwidth protection.

The ISR can support the default gateway function and other Layer 3 services such as DHCP, NAT, IPsec VPN, and IOS Firewall.

Layer 2 services can be provided by the Cisco ISR using switch modules or the Cisco Catalyst 2960, 3560 or 3750 series-based access switches. It is recommended that you use Rapid Per VLAN Spanning Tree Plus (PVST+) for all Layer 2 branch offices where loops are present. Rapid PVST+ ensures a loop-free topology when multiple Layer 2 connections are used for redundancy purposes.

Both the Cisco 2921 and the 2951 ISRs support three integrated 10/100/1000 Ethernet interfaces, which support Layer 3 routing, and one slot for a network

#### **QUESTION 15**

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

- A. Layer 4 through layer 7 services are provided in that layer
- B. STP should never be supported in that layer
- C. That layer is the critical point for control and application services Cisco 640-864: Practice Exam
- D. Layer 2 connectivity is provided in that layer from the data center to the core

Correct Answer: AC Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: Data Center aggregation layer connects various network modules together. Link: http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/campover.html

## **QUESTION 16**

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 availability
- 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:**

Explanation:

The PPDIOO life cycle provides four main benefits:

- + It improves business agility by establishing business requirements and technology strategies. + It increases network availability by producing a sound network design and validating the network operation.
- + It speeds access to applications and services by improving availability, reliability, security, scalability, and performance.
- + It lowers the total cost of ownership by validating technology requirements and planning for infrastructure changes and resource requirements.

(Reference: Cisco CCDA Official Exam Certification Guide, 3rd Edition) described in the link below.

Link: http://www.ciscopress.com/articles/article.asp?p=1608131&seqNum=3

#### **QUESTION 17**

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

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- 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-call destination address.
- D. Dynamic address assignment requires DHCPv6.

Correct Answer: C Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: Link local addresses are local to the LAN only, they are not communicated across LAN boundaries.

Link: http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/CamplPv6.html

#### **QUESTION 18**

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

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

Correct Answer: A

Section: (none) Explanation

## **Explanation/Reference:**

Explanation: Layer 3 ability at network edge should be available to leverage the benefits of routed network

design.

Link: http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/campover.html

#### **QUESTION 19**

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.

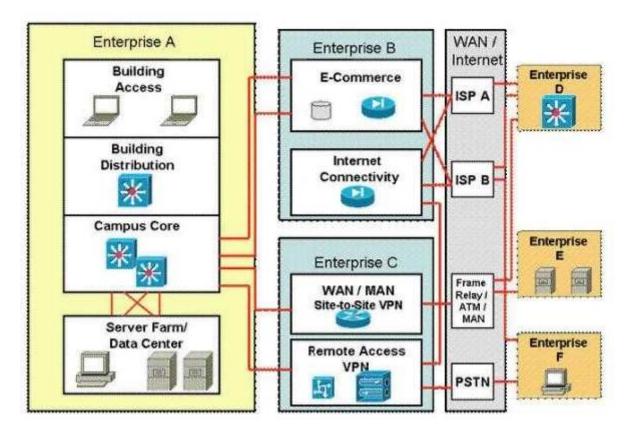
Correct Answer: BD Section: (none) Explanation

## **Explanation/Reference:**

Explanation: Refer to the link below, the protocol is designed to function that way. Link: http://www.cisco.com/en/US/tech/tk365/technologies white paper09186a0080094e9e.shtml

#### **QUESTION 20**

Refer to the exhibit.



Which module is the Enterprise WAN module?

A. Enterprise A

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- B. Enterprise B
- C. Enterprise C
- D. Enterprise D
- E. Enterprise E
- F. Enterprise F

Correct Answer: C Section: (none) Explanation

## **Explanation/Reference:**

Explanation: WAN module consists of WAN link terminal devices, routers, firewalls, remote access services. Link: http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/campover.html#wp708780

#### **QUESTION 21**

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:**

Explanation: IPSec provides CIA (Confidentiality, Integrity & Authencity) Link: http://nl.wikipedia.org/wiki/IPsec

#### **QUESTION 22**

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

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

Correct Answer: BE Section: (none) Explanation

# Explanation/Reference:

Explanation: Virtualization is concept of sharing a single physical device as multiple logical devices.

Link.

http://www.cisco.com/en/US/docs/solutions/Enterprise/Network\_Virtualization/ServEdge.html

#### **QUESTION 23**

Layer 2switching 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:**

Explanation: Access layer provides network connectivity to end users which is layer 2 in nature. Link: http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/campover.html#wp708780

#### **QUESTION 24**

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

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

Correct Answer: C Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

Here is the answer from the Cisco Certification guide.

#### Enterprise Teleworker Design

Enterprise teleworkers need to be differentiated from the occasional remote worker. The full-time enterprise teleworker has more extensive application access and requirements than the occasional remote worker. Occasionally, remote users connect to the corporate network at a hotspot, but generally they do not have the same application demands of an enterprise teleworker. Generally, enterprise teleworkers connect to a local ISP through a cable or DSL connection in their residence.'

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The Cisco Virtual Office Solution for the Enterprise Teleworker is implemented using the Cisco 800 series ISRs. Each ISR has integrated switch ports that then connect to the user's broadband connection. The solution uses a permanent always-on IPsec VPN tunnel back to the corporate network. This architecture provides for centralized IT security management, corporate-pushed security policies, and integrated identity services. In addition, this solution supports the enterprise teleworker needs through advanced applications such as voice and video. For example, the enterprise teleworker can take advantage of toll bypass, voicemail, and advanced IP phone features not available in the PSTN.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 7

#### **QUESTION 25**

Which one of these statements is true when considering the design of voice video service for the campus

#### network?

- A. Access layer switches should support 802.1Q trunking and 802.1p for 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:**

Explanation: 802.1Q & 802.1P are required for Vlan tagging & prioritizing voice frames.

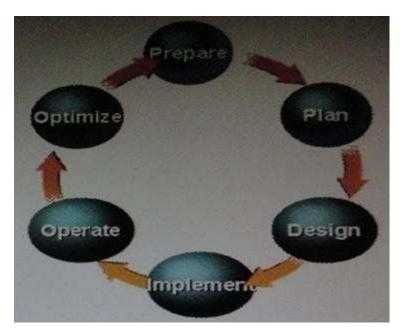
Link:

http://www.cisco.com/en/US/docs/switches/lan/catalyst3750/software/release/12.2\_25\_sec/configu ration/guide/swvoip.html

#### **QUESTION 26**

Refer to the exhibit.

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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:**

Explanation:

The Design phase includes network diagrams and an equipment list. The project plan is updated with more granular information for implementation. This is the so-called "prepare implementation procedures". implementation is done during Implement phase.

Link: http://www.ciscopress.com/articles/article.asp?p=1608131&seqNum=3

#### **QUESTION 27**

Which statement describes the recommended deployments of IPv4 addressing in the Cisco Network Architecture for the Enterprise? Cisco 640-864: Practice Exam

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

Correct Answer: C Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: E-Commerce, and Remote Access and VPN modules provide services to external users, customer and need to be available without NAT as NAT has inherent issues with many application level services.

Link: http://leaman.org/ccna4/Chap\_1.pdf

#### **QUESTION 28**

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:**

Explanation: IPSec VPN are point to point connections and works easily with static routes.

Link: CCDA Self Study Guide: Diane Teare

#### **QUESTION 29**

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

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

Correct Answer: D Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: VoIP designing should consider how users are connecting to campus.

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Link: http://www.net130.com/tutorial/cisco-

pdf/Cisco %20IP%20Telephony%20Network%20Design Guide.pdf

#### QUESTION 30

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

- A. a list of OoS 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: C Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: please refer to link.

Link: CCDA Self Study Guide: Diane Teare

#### **QUESTION 31**

Your company's Cisco routers are operating with EIGRP. You need to join network 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:**

Explanation: Without filters there is possibility of routing loops. Link: http://www.cisco.com/en/US/tech/tk365/technologies\_tech\_note09186a008009487e.shtml

## **QUESTION 32**

When considering the enterprise campus design, which network application category, most influence the network design?

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

Correct Answer: D Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: There should be considerations about traffic flow between client and servers.

Link:

http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/Borderless\_Campus\_Network\_1.0 /

BN\_Campus\_Models.html

#### **QUESTION 33**

When describing 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 Cisco 640-864: Practice Exam group.

Correct Answer: A Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: N+N redundancy allows for logical partitioning of APs, deployed in such way the APs do not associate with WLC in random way.

Link: http://www.cisco.com/web/learning/le31/le46/cln/qlm/CCDA/design/understanding-wireless- network-controller-technology-3/player.html

#### **QUESTION 34**

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

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

Correct Answer: B Section: (none) Explanation

#### Explanation/Reference:

Explanation: All the modules must end up in the core for optimized routing & switching across the network modules.

Link:

http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/Borderless\_Campus\_Network\_1.0 / BN Campus Technologies.html

#### **QUESTION 35**

Which 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.

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Correct Answer: C Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: Validating user authentication should be implemented as close to the source as possible, with an emphasis on strong authentication for access from untrusted networks. Access rules should enforce policy deployed throughout the network with the following guidelines:

An integral part of identity and access control deployments is to allow only the necessary access. Highly distributed rules allow for greater granularity and scalability but, unfortunately, increase the management complexity. On the other hand, centralized rule deployment eases management but lacks flexibility and scalability.

Practicing "defense in depth" by using security mechanisms that back each other up is an important concept to understand. For example, the perimeter Internet routers should use ACLs to filter packets in addition to the firewall inspecting packets at a deeper level.

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#### **QUESTION 36**

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. 2x4 kHz x 8-bit code words

Correct Answer: D Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: Explanation: While the human ear can sense sounds from 20 to 20,000 Hz, and speech encompasses sounds from about 200 to 9000 Hz, the telephone channel was designed to operate at about 300 to 3400 Hz. This economical range carries enough fidelity to allow callers to identify the party at the far end and sense their mood. Nyquist decided to extend the digitization to 4000 Hz, to capture higher-frequency sounds that the telephone channel may deliver. Therefore, the highest frequency for voice is 4000 Hz. According to Nyquist theory, we must double the highest frequency, so 2x4kHz = 8kHz.

Each sample will be encoded into a 8-bit code. Therefore  $8kHz \times 8$ -bit code = 64 Kbps (notice about the unit Kbps: 8kHz = 8000 samples per second so  $8000 \times 8$ -bit = 64000 bit per second = 64 Kilobit per second = 64 Kbps)

Link: http://encyclopedia2.thefreedictionary.com/Nyquist+theorem Note:

Nyquist theory:

"When sampling a signal (e.g., converting from an analog signal to digital), the sampling frequency Cisco 640-864: Practice Exam

must be greater than twice the bandwidth of the input signal in order to be able to reconstruct the original perfectly from the sampled version."

#### **QUESTION 37**

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

- A. 802.ax
- B. ACLs in the core layer
- C. Cisco Security MARS
- D. NetFlow

Correct Answer: C Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

Answer A is incorrect as there is no such thing as 802.ax. 802.1ax is Link aggregation which has nothing to do with identity and access control. However, if this is a type-o and 802.1x was supposed to be used this would be the correct answer Answer B is incorrect as ACLs do not get used in the Core layer Answer C is questionable and appears to be the only security solution that can actually be used that is listed here. However, the MARS appliance is used for Infrastructure protection and NOT identity and access control but is used for Security management, Threat Detection, and mitigation Cisco 640-864: Practice Exam

Answer D is incorrect as it is also used for Threat detection and mitigation Table, Security in the Campus

Cisco Security Category	Security Solutions	
Identity and access control	802.1X, NAC, ACLs, and firewalls	
Threat detection and mitigation	NetFlow, Syslog, SNMP, RMON, CS-MARS, and NIPS	
Infrastructure protection	AAA, TACACS, RADIUS, SSH, SNMPv3, IGP/ EGP MD5, and Layer 2 security features	
Security management	CSM, CS-MARS, and ACS	

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#### **QUESTION 38**

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:**

Explanation: D, C, F are properties of distribution layer. Link: http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/campover.html#wp708979

#### **QUESTION 39**

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) Cisco 640-864: Practice Exam

- 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:**

Explanation: The purpose of ISP link is for serving customers & it is also providing internet connectivity to internal & external users, thus it falls into above 2 categories.

Link: http://leaman.org/ccna4/Chap\_1.pdf

#### **QUESTION 40**

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

What more can be done? Cisco 640-864: Practice Exam

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

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 41**

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:**

Explanation:

#### **QUESTION 42**

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

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

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

### **Explanation/Reference:**

Explanation:

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

# **Explanation/Reference:**

Explanation: Explanation

ISR G2 Security Hardware Options

The Cisco G2 ISRs have additional hardware options that enhance the routers' security capabilities. Here are some of the available hardware options:

Note

For a complete ISR G2 series comparison, go to www.cisco.com/en/US/products/ps10536/prod series comparison.html.

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#### **QUESTION 44**

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 Cisco 640-864: Practice Exam
- B. estimated rollback time in case of failure
- C. simple implementation guidelines
- D. estimated implementation time
- E. design document references
- F. step description

Correct Answer: DEF Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

The implementation of a network consists of several phases. The each step should contain the following information:

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#### **QUESTION 45**

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

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

Correct Answer: EF Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

## **QUESTION 46**

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: AC Section: (none) Explanation

# Explanation/Reference:

## **Explanation: Explanation**

#### VolP

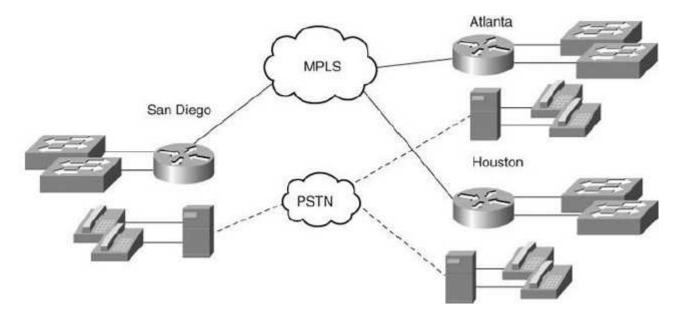
VoIP provides transport of voice over the IP protocol family. IP makes voice globally available regardless of the data-link protocol in use (Ethernet, ATM, Frame Relay). With VoIP, enterprises do not have to build separate voice and data networks. Integrating voice and data into a single converged network eliminates duplicate infrastructure, management, and costs.

Figure 14-7 shows a company that has separate voice and data networks. Phones connect to local PBXs, and the PBXs are connected using TDM trunks. Off-net calls are routed to the PSTN. The data network uses LAN switches connected to WAN routers. The WAN for data uses Frame Relay. Separate operations and management systems are required for these networks. Each system has its corresponding monthly WAN charges and personnel, resulting in additional costs.

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With separate voice and data networks,

Figure 14-7 Separate Voice and Data Networks



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## **QUESTION 47**

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

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

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

Table. WLAN Controller Platforms

Order	WLC
First	Primary sysName (preconfigured)
Second	Second sysName (preconfigured)
Third	Tertiary sysName (preconfigured)
Fourth	Master controller
Fifth	WLC with greatest capacity for AP associations

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#### **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:**

Explanation:

Queuing, Traffic Shaping, and Policing

Cisco has developed many different QoS mechanisms, such as queuing, policing, and traffic shaping, to enable network operators to manage and prioritize the traffic flowing on the network. Applications that are delay sensitive, such as VoIP, require special treatment to ensure proper application functionality. Queuing refers to the buffering process used by routers and switching when they receive traffic faster than can be transmitted. Different queuing mechanisms can be implemented to influence the order in which the different queues are serviced (that is, how different types of traffic are emptied from the queues). Table 6-6 identifies QoS considerations to optimize bandwidth.

QoS Category	Description
Classification	Identifies and marks flow and provides priority to certain flows
Congestion management	Mechanism to handle traffic overflow using a queuing algorithm
Link-efficiency mechanisms	Reduce latency and jitter for network traffic on low-speed links
Traffic shaping and policing	Avoids congestion by policing ingress and egress flows

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#### **QUESTION 49**

Which two statements best describe the implementation of Overlay VPN connectivity for remote access in the Enterprise Edge WAN module? (Choose two.) Cisco 640-864: Practice Exam

- 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:** Explanation: Explanation

**Network-Layer VPNs** 

The network layer in the TCP/IP protocol suite consists of the IP routing system--how reachability information is conveyed from one point in the network to another. There are a few methods to construct VPNs within the network layer; each is examined in the following paragraphs. A brief overview of non-IP VPNs is provided in Part II of this article. A brief overview of the differences in the "peer" and "overlay" VPN models is appropriate at this point. Simply put, the "peer" VPN model is one in which the network-layer forwarding path computation is done on a hop-by-hop basis, where each node in the intermediate data transit path is a peer with a next-hop node. Traditional routed networks are examples of peer models, where each router in the network path is a peer with its next-hop adjacencies. Alternatively, the "overlay" VPN model is one in which the network-layer forwarding path is not done on a hop-by-hop basis, but rather, the intermediate link- layer network is used as a "cut-through" to another edge node on the other side of a large cloud. Examples of "overlay" VPN models include ATM, Frame Relay, and tunneling implementations. Having drawn these simple distinctions between the peer and overlay models, it should be noted that the overlay model introduces some serious scaling concerns in cases where large numbers of egress peers are required because the number of adjacencies increases in direct proportion to the number of peers--the amount of computational and performance overhead required to maintain routing state, adjacency information, and other detailed packet forwarding and routing information for each peer becomes a liability in very large networks. If all the egress nodes in a cut-through network become peers in an effort to make all egress nodes one "Layer 3" hop away from one another, the scalability of the VPN overlay model is limited guite remarkably.

The Internet Protocol Journal - Volume 1, No. 1 What Is a VPN? - Part I

http://www.cisco.com/web/about/ac123/ac147/archived issues/ipj 1-1/what is a vpn.html

#### **QUESTION 50**

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

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

Correct Answer: BE Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **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.

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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:**

Explanation: Explanation

RMON2

RMON1 is focused on the data link and physical layers of the OSI model. As shown in Figure 15- 4, RMON2 provides an extension for monitoring upper-layer protocols.

Figure. RMON1 and RMON2 Compared to the OSI Model Defined by RFC 2021, RMON2 extends the RMON group with the MIB groups listed in the following Table

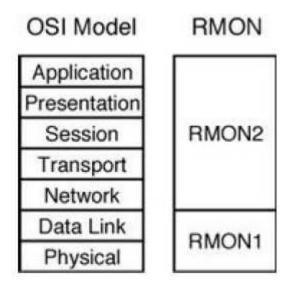


Table. RMON2 Groups Cisco 640-864: Practice Exam

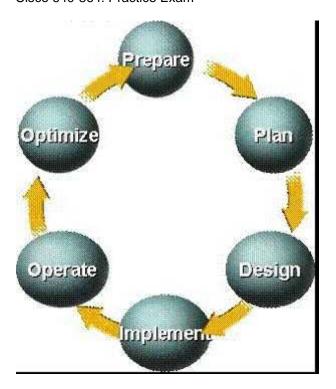
ID	Name	Description
11	Protocol Directory	Lists the protocols the device supports
12	Protocol Distribution	Traffic statistics for each protocol
13	Address Mapping	Contains network-to-MAC layer address mapping (IP to MAC)
14	Network Layer Host	Contains statistics for traffic sent to or from network layer hosts
15	Network Layer Matrix	Contains statistics for conversations between two network layer hosts
16	Application Layer Host	Contains application layer statistics for traffic sent to or from each host
17	Application Layer Matrix	Contains application layer statistics for conversations between pairs of hosts
18	User History	Contains periodic samples of specified variables
19	Probe Configuration	Probes parameter configuration

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## **QUESTION 52**

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

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

## F. Design Assessment

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

Design phase: Developing a detailed design is essential to reducing risk, delays, and the total cost of network deployments. A design aligned with business goals and technical requirements can improve network performance while supporting high availability, reliability, security, and scalability.

(Reference: http://www.ciscozine.com/2009/01/29/the-ppdioo-network-lifecycle/)

#### **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:

Explanation: Explanation

By incorporating the organization's requirements, the top-down network design process provide the big picture that meets current and future requirements.

## **QUESTION 54**

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

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

Correct Answer: AD Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **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:

Explanation: Explanation

IPsec - A security architecture that operates in a host to protect IP traffic. The IETF defined IPsec in RFC 4301. IPsec uses open standards and provides secure communication between peers to ensure data confidentiality, integrity, and authentication through network layer encryption.

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#### **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. Cisco 640-864: Practice Exam

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation: Explanation

CAC should be used to keep excess voice traffic from the network by ensuring that there is enough bandwidth for new calls. Call admission control (CAC) is used to control the number of calls to reduce the WAN bandwidth for a site that has IPT. CAC is configured for the site on the CUCM servers. A maximum bandwidth or maximum number of calls is provisioned for the site. CAC enforces a maximum number of calls between two locations to ensure that call quality will not be degraded by allowing more calls than a network can support. CAC causes excessive calls between two locations to be refused. The IPT system must then either reroute the call to different available path, such as the PSTN, or deny the call.

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#### **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:**

Explanation:

#### **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:**

Explanation: Explanation

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#### Characterizing the Existing Network

Characterizing the network is Step 2 of the design methodology. In this section, you learn to identify a network's major features, tools to analyze existing network traffic, and tools for auditing and monitoring network traffic.

## Steps in Gathering Information

When arriving at a site that has an existing network, you need to obtain all the existing documentation. Sometimes no documented information exists. You should be prepared to use tools to obtain information and get access to log in to the network devices to obtain information. Here are the steps for gathering information:

When gathering exiting documentation, you look for site information such as site names, site addresses, site contacts, site hours of operation, and building and room access. Network infrastructure information includes locations and types of servers and network devices, data center and closet locations, LAN wiring, WAN technologies and circuit speeds, and power used. Logical network information includes IP addressing, routing protocols, network management, and security access lists used. You need to find out whether voice or video is being used on the network.

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#### **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

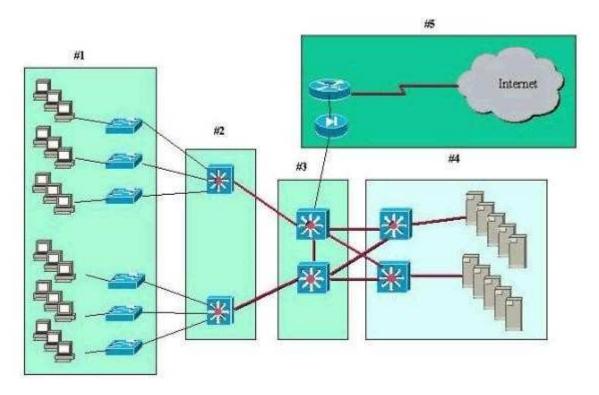
#### **Explanation/Reference:**

Explanation:

## **QUESTION 60**

Refer to the exhibit.

A standard, Layer 2 campus network design is pictured. Which numbered box represents the distribution layer? Cisco 640-864: Practice Exam



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

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation: #1 Access

#2 Distribution

#3 Core

#4 Server Farm / Data Center

#5 WAN Module

#1 is the access layer, since it interfaces directly with the clients #3 is the core layer, since these switches have a direct connection (highest resiliency) and they interface directly with the WAN module

#4 is the datacenter layer, because it interfaces directly with the campus servers #5 is the WAN module, it interfaces with the internet

## **QUESTION 61**

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

- A. provides a more detailed picture of the desired network
- B. facilitates design based on previous experience
- C. is less time-consuming than using a bottom-up approach
- D. allows quick responses to design requests
- E. incorporates customer organizational requirements Cisco 640-864: Practice Exam

Correct Answer: E Section: (none) Explanation

## **Explanation/Reference:**

Explanation: Explanation

The top-down approach begins with the organization's requirements before looking at technologies. Network designs are tested using a pilot or prototype network before moving into the Implement phase.

#### **QUESTION 62**

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

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

Correct Answer: DF Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

Over-the-Air-Provisioning (OTAP) Process

During the LAP boot process, the LAP uses different mechanisms in order to discover controllers that it can join. The LAP keeps each of the controller that IP addresses it learned through the different methods in different lists in order to reflect how the LAP learned about them. For example, the LAP can learn management IP addresses of multiple controllers through the DNS entry for CISCO-LWAPP-CONTROLLER.localdomain, DHCP option 43, through broadcasts on the local subnet, locally stored controller IP address discovery, and through OTAP. Once the access point has completed the LWAPP WLC Discovery steps, it chooses a WLC from the candidate WLC list and sends that WLC an LWAPP Join Request.

Cisco 4400 series Wireless LAN Controllers Understanding Over-the-Air-Provisioning (OTAP) Document ID: 100516

#### **QUESTION 63**

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

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

Correct Answer: A Section: (none) Explanation

#### **Explanation/Reference:**

Explanation: Explanation: NAT has several forms:

·Static NAT: Maps an unregistered or private IP address to a registered IP address; it is configured manually. It is commonly used to assign a network device with internal private IP address a unique public address so that they can be accessed from the Internet. ·Dynamic NAT: Dynamically maps an unregistered or private IP address to a registered IP address from a pool (group) of registered addresses. The two subsets of dynamic NAT are overloading and overlapping:

oOverloading: Maps multiple unregistered or private IP addresses to a single registered IP address by using different ports. This is also known as PAT, single-address NAT, or port-level multiplexed NAT.

oOverlapping: Maps registered internal IP addresses to outside registered IP addresses It can also map external addresses to internal registered addresses.

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Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 8

#### **QUESTION 64**

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 Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

Inline IPS and anomaly detection: Cisco has innovated in the area of NIDS by being the first to incorporate NIDS into the IOS on routing and switching platforms. In addition, IPS solutions have inline filtering features that can remove unwanted traffic with programmable features that classify traffic patterns. The Cisco IPS 4200 sensor appliances, Cisco Catalyst 6500 IDSM-2, and the Cisco IOS IPS can identify, analyze, and stop unwanted traffic from flowing on the network. Another set of tools used to prevent distributed DoS (DDoS) attacks and ensure business continuity is the Cisco Traffic Anomaly Detector XT and Guard XT appliances, along with the Cisco Catalyst 6500 Traffic Anomaly Detector Module and Cisco Anomaly Guard Module.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 13

#### **QUESTION 65**

Which two routing protocols operate over NBMA point-to-multipoint networks without the use of Cisco 640-864: Practice Exam

point-to-point subinterfaces? (Choose two.)

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

Correct Answer: AB Section: (none) Explanation

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 66**

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.

Correct Answer: C Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

Medium Branch Design

The medium branch design is recommended for branch offices of 50 to 100 users, which is similar Cisco 640-864: Practice Exam

to the small branch but with an additional access router in the WAN edge (slightly larger) allowing for redundancy services. Typically, two 2921 or 2951 routers are used to support the WAN, and separate access switches are used to provide LAN connectivity.

The infrastructure components are dual-access routers, external Layer 2 / Layer 3 switches, laptops, desktops, printers, and IP phones. Dual Frame Relay links provide the private WAN services, which are used to connect back to the corporate offices via both of the access routers. Layer 3 protocols such as EIGRP are typically deployed. Because there are two routers, Hot Standby Router Protocol (HSRP) or Gateway Load Balancing Protocol (GLBP) can be used to provide redundancy gateway services. QoS can also be used to provide guaranteed bandwidth for VoIP, and policing can be used to restrict certain traffic classes from overwhelming the available bandwidth. Cisco IOS features such as QoS, access control lists (ACL), and RIP routing capabilities are available in the IP Base feature set, but IP unicast routing and multicast routing require the IP Services feature set.

The medium branch design supports using a higher-density external switch or using the EtherSwitch module with the ISR to create trunks to the external access switches. The Cisco Catalyst 3750 series switches have StackWise technology, allowing multiple switches to be connected and managed as one. This also increases the port density available for end-user connections. With Cisco StackWise technology, customers can create a single, 32-Gbps switching unit that can connect up to nine 3750 series switches using a variety of fiber and copper ports, allowing greater flexibility with the connection options.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 7

## **QUESTION 67**

A customer has the following Enterprise Campus design requirements:

at least 10 Gbps of bandwidth

network runs of up to 40km

no concern for transmission medium cost

Which transmission medium should you recommend to this customer?

- A. unshielded twisted pair
- B. shielded twisted pair Cisco 640-864: Practice Exam
- C. single-mode fiber
- D. wireless
- E. multimode fiber

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

Below is the comparison of transmission media

Media	Bandwidth	Distance	
Twisted pair	Up to 1 Gbps	100 m	
Multimode fiber	Up to 1 Gbps	2 km (FE) 550 m (GE)	
Single-mode fiber	10 Gbps	90 km (FE) 40 km (GE)	
Wireless	54 Mbps (27 Mbps effective)	500 m at 1 Mbps	

(Reference from CCDA Official Exam Certification Guide. Some other books have different figures but we should answer it according to the "Official" book)

## **QUESTION 68**

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

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- C. 192.168.0.0/24
- D. 192.168.171.128/3
- E. 192.168.175.0/3
- F. None of the above

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

Route Summarization is called route aggregation. Route aggregation creates one route in the routing table represents many other routes. Summarizing routes reduces the routing update traffic and reduces the number of routes in the routing table and overall router overhead in the router receiving the routes Example of creating Summary Route:

192.168.172.0 =11000000 10101000 10101 100 00000000

192.168.175.0 =11000000 10101000 10101 111 00000000

Number of Common Bits = 21 Number of Non-Common Network Bits = 3 Number of Host Bits = 8

So Answer 192.168.168.0/21 is correct.

#### **QUESTION 69**

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

A. verify open ports for:

Layer 2 LWAPP on ethertype OxBBBB Layer 3 LWAPP on UDP 12222 and UDP 12223

- B. use of Layer 3 LWAPP is preferred over Layer 2 LWAPP
- C. use of Layer 2 LWAPP is preferred over Layer 3 LWAPP
- D. verify open ports for:

Layer 2 LWAPP on ethertype OxBABA

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Layer 3 LWAPP on UDP 12222 and TCP 12223

E. verify open ports for:

Layer 2 LWAPP on ethertype OxABAB

Layer 3 LWAPP on TCP 12222 and TCP 12223

Correct Answer: AB Section: (none) Explanation

# **Explanation/Reference:**

**Explanation:** Explanation

#### LWAPP

Lightweight Access Point Protocol (LWAPP) is a draft Internet Engineering Task Force (IETF) standard for control messaging for setup, authentication, and operations between APs and WLAN controllers (WLC).

In the LWAPP RFC draft, LWAPP control messages can be transported at Layer 2 tunnels or Layer 3 tunnels. Layer 2 LWAPP tunnels were the first method developed in which the APs did not require an IP address. The disadvantage of Layer 2 LWAPP was that the WLC needed to be on every subnet on which the AP resides. Layer 2 LWAPP is a deprecated solution for Cisco. Layer 3 LWAPP is the preferred solution. In the configuration, Layer 2 or Layer 3 transport modes can be selected. When set Layer 3, the LWAPP uses IP addresses to communicate with the access points; these IP addresses are collected from a mandatory DHCP server. When set to Layer 2, the LWAPP uses proprietary code to communicate with the access points.

Note

Layer 2 LWAPP tunnels use EtherType code 0xBBBB. Layer 3 LWAPP uses UDP ports 12222 and 12223.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 5

#### **QUESTION 70**

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:**

Explanation:

## **QUESTION 71**

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

has a low initial cost

provides low-to-medium BW

has medium-to-high latency and jitter

Which technology would you suggest?

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

Correct Answer: D Section: (none) Explanation

# Explanation/Reference:

Explanation: Explanation

Table. WAN Comparison Cisco 640-864: Practice Exam

WAN Technology	Bandwidth	Reliability	Latency	Cost
ISDN	Low	Medium	Medium	Low
DSL	Low/Medium	Low	Medium	Low
Cable	Low/Medium	Low	Medium	Low
Wireless	Low/Medium	Low	Medium	Medium
Frame Relay	Low/Medium	Medium	Low	Medium
TDM	Medium	High	Low	Medium
Metro Ethernet	Medium/High	High	Low	Medium

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 6

### **QUESTION 72**

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

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

Correct Answer: E Section: (none) Explanation

## **Explanation/Reference:**

Explanation: Explanation

The Cisco Security Agent (CSA) software protects server and desktop endpoints from the latest threats caused by malicious network attacks. CSA can identify and prevent network attacks that are considered unknown or "Day Zero"-type threats. CSAs are packed with many features, including rewall capabilities, intrusion prevention, malicious mobile code protection, operating- system integrity assurance, and audit log consolidation. (Reference: CCDA Official Exam Certification Guide 3rd) Cisco 640-864: Practice Exam

## **QUESTION 73**

Which H.323 protocol controls call setup between endpoints?

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

Correct Answer: C Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 74**

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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:**

Explanation:

#### **QUESTION 75**

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:**

Explanation:

## **QUESTION 76**

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

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

Correct Answer: AC

Section: (none) Explanation

## Explanation/Reference: Cisco 640-864: Practice Exam

Explanation:

#### **QUESTION 77**

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:**

Explanation: Explanation Design Document

The design document describes the business requirements; old network architecture; network requirements; and design, plan, and configuration information for the new network. The network architects and analysts use it to document the new network changes, and it serves as documentation for the enterprise. The design document should include the following sections:

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 1

## **QUESTION 78**

Which of these accurately describes dial backup routing?

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

Correct Answer: E Section: (none) Explanation

# Explanation/Reference:

Explanation: Explanation

## WAN Backup Design

Redundancy is critical in WAN design for the remote site because of the unreliable nature of WAN links, when compared to LANs that they connect. Most enterprise edge solutions require high availability between the primary and remote site. Because WAN links have lower reliability and Cisco 640-864: Practice Exam

lack bandwidth, they are good candidates for most WAN backup designs.

Branch offices should have some type of backup strategy in the event of a primary link failure. Backup links can be either dialup, permanent WAN, or Internet-based connections.

WAN backup options are as follows:

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 7

#### **QUESTION 79**

Which statement correctly describes queuing in environments supporting teleworkers?

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

Correct Answer: A Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 80**

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:**

Explanation:

## **QUESTION 81**

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

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

Correct Answer: C Section: (none) Explanation

### **Explanation/Reference:**

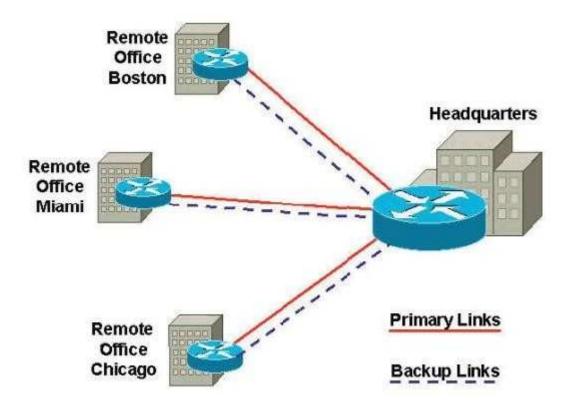
Explanation:

Cisco 640-864: Practice Exam

### **QUESTION 82**

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:**

Explanation:

# **QUESTION 83**

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.

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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:**

Explanation:

## **QUESTION 84**

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:**

Explanation:

# **QUESTION 85**

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? Cisco 640-864: Practice Exam

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

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 86**

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: ACF Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

## **QUESTION 87**

Cisco 640-864: Practice Exam

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:**

Explanation:

#### **QUESTION 88**

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



http://www.gratisexam.com/

### D. unicast

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

IPv6 Anycast Addresses

The IPv6 anycast (one-to-nearest) address identifies a set of devices. An anycast address is allocated from a set of unicast addresses. These destination devices should share common characteristics and are explicitly configured for anycast.

You can use the anycast address to identify a set of routers or servers within an area. When a packet is sent to the anycast address, it is delivered to the nearest device as determined by the routing protocol. An example of the use of anycast addresses is to assign an anycast address to a set of servers--one in North America, and the other in Europe. Users in North America would be routed to the North American server, and those in Europe to the European server.

You cannot use an anycast address as a source address. Also, you must explicitly configure nodes to which the anycast address is assign to recognize the anycast address.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 9 Cisco 640-864: Practice Exam

#### **QUESTION 89**

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:**

Explanation:

#### **QUESTION 90**

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

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Correct Answer: CD Section: (none) Explanation

## **Explanation/Reference:**

Explanation: Explanation

The SONA framework denes the following three layers:

+ Networked Infrastructure layer: Where all the IT resources interconnect across a converged network foundation. The objective of this layer is to provide connectivity, anywhere and anytime. + Interactive Services layer: Includes both application networking services and infrastructure services. This layer enables efcient allocation of resources to applications and business processes delivered through the networked infrastructure. + Application layer: Includes business applications and collaboration applications. The objective of this layer is to meet business requirements and achieve efciencies by leveraging the Interactive Services layer. With above information, you can answer question 2 and 3 below.

#### **QUESTION 91**

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 Section: (none) Explanation

#### **Explanation/Reference:**

Explanation:

## **QUESTION 92**

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:

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:**

Explanation:

#### **QUESTION 93**

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:**

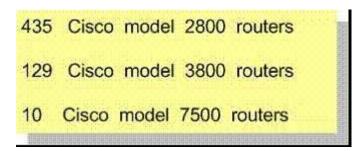
Explanation:

#### **QUESTION 94**

Refer to the exhibit. You are documenting the existing network of a customer with a large installed Cisco 640-864: Practice Exam

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.)



- A. software revisions
- B. interface options
- C. power requirements
- D. error statistics
- E. management protocols

Correct Answer: AB Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

#### **QUESTION 95**

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:**

**Explanation:** Explanation

The Implement phase begins after the design phase has been finished. In this phase, new devices are installed, configured and tested according to the design specifications.

#### **QUESTION 96**

You are designing IPv6 into an existing IPv4 network. Which two strategies can you use to allow Cisco 640-864: Practice Exam

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:**

Explanation:

## **QUESTION 97**

A network is being designed to meet the requirements listed.

Within the enterprise network:

All routers are Cisco 3800 Series routers running the latest Cisco IOS release.

The fastest convergence time possible is required.

Unequal cost load-balancing is required.

For Internet connections:

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

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

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

Correct Answer: BD

Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 98**

Which two statements best describe Cisco Wireless LAN Guest Access in a Cisco Unified Cisco 640-864: Practice Exam

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:**

Explanation:

#### **QUESTION 99**

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

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

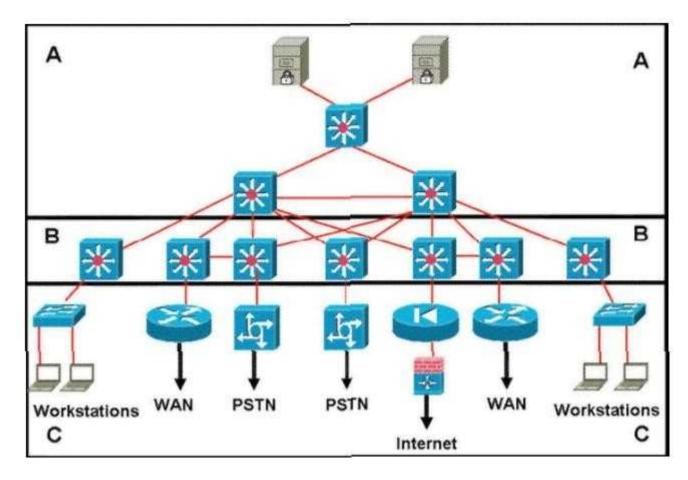
Correct Answer: E Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 100**

Refer to the exhibit. Which statement accurately represents the characteristics of the core layer in this design? Cisco 640-864: Practice Exam



- 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:**

Explanation:

## **QUESTION 101**

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

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

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

## **QUESTION 102**

What is the administrative distance of eBGP routes? Cisco 640-864: Practice Exam

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

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

## **QUESTION 103**

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

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

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

# **QUESTION 104**

What does IGMP stand for?

- A. Internet Group Management Protocol
- B. Interior Gateway Routing Protocol
- C. Interior Group Management Protocol Cisco 640-864: Practice Exam
- D. Interior Gateway Media Protocol

Correct Answer: A Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

## **QUESTION 105**

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:**

Explanation:

Cisco 640-864: Practice Exam

### **QUESTION 106**

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

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

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

## **QUESTION 107**

Which address type is 225.10.1.1?

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

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:**

Explanation: Explanation

Answer A is incorrect as Unicast is an IPv6 address

Answer B is incorrect as Anycast is an IPv6 one to nearest address that identifies a set of devices Answer C is correct as multicast addresses range from 224.0.0.1 to 239.255.255. Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 8

# **QUESTION 108**

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

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

Correct Answer: B Section: (none) Explanation

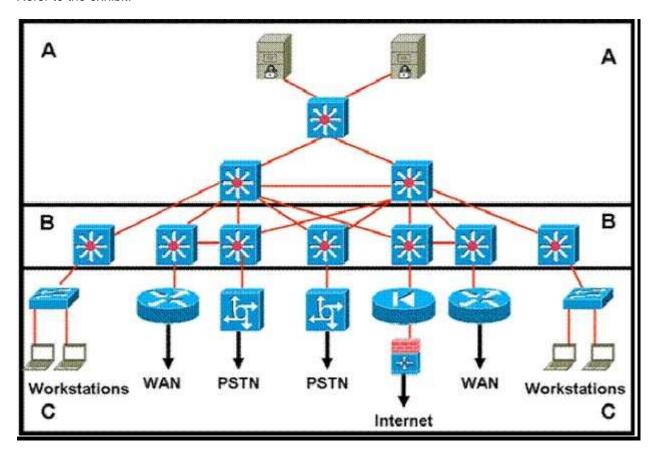
# **Explanation/Reference:**

Explanation:

Cisco 640-864: Practice Exam

## **QUESTION 109**

Refer to the exhibit.



Which layer is the distribution layer?

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

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

# **QUESTION 110**

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:** Cisco 640-864: Practice Exam

Explanation:

#### **QUESTION 111**

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

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

Correct Answer: C Section: (none) Explanation

### **Explanation/Reference:**

Explanation:

### **QUESTION 112**

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:**

Explanation:

#### **QUESTION 113**

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

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

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

#### **QUESTION 114**

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:

Explanation: Explanation

#### **RMON**

RMON is a standard monitoring specification that enables network monitoring devices and console systems to exchange network monitoring data. RMON provides more information than SNMP, but more sophisticated data collection devices (network probes) are needed. RMON looks at MAC- layer data and provides aggregate information on the statistics and LAN traffic.

Cisco 640-864: Practice Exam

Enterprise networks deploy network probes on several network segments; these probes report back to the RMON console. RMON allows network statistics to be collected even if a failure occurs between the probe and the RMON console. RMON1 is defined by RFCs 1757 and 2819, and additions for RMON2 are defined by RFC 2021.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 15

#### **QUESTION 115**

Which FCAPS function includes finding network problems that reduce availability?

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

Correct Answer: C Section: (none) Explanation

# Explanation/Reference:

Explanation: Explanation

The ISO defines five types of network management processes that are commonly known as FCAPS. These processes are as follows:

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 15

# **QUESTION 116**

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

A. Analyzing network traffic

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

Correct Answer: ACD Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

### **QUESTION 117**

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

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

Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

## **QUESTION 118**

Cisco 640-864: Practice Exam

Which type of DSL does residential service use?

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

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

# **QUESTION 119**

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:**

## Explanation:

### **QUESTION 120**

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 Cisco 640-864: Practice Exam
- D. Real-Time Transport Control Protocol (RTCP) headers

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

### **QUESTION 121**

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:**

Explanation:

#### **QUESTION 122**

What is the virtual information store used within SNMP called?

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

Correct Answer: A Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 123**

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:**

Explanation:

Cisco 640-864: Practice Exam

#### **QUESTION 124**

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:**

Explanation:

#### **QUESTION 125**

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:**

Explanation:

#### **QUESTION 126**

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

- A. Generic Routing Encapsulation (GRE) and Internetwork Packet Exchange (IPX)(EIGRP)
- B. Border Gateway Protocol (BGP) and Enhanced Interior Gateway Routing Protocol
- C. Authentication Header (AH) and Encapsulating Security Payload (ESP)
- D. Virtual Private Dial-Up Network (VPDN) and GRE

Correct Answer: C Section: (none) Explanation

### **Explanation/Reference:**

Explanation:

Cisco 640-864: Practice Exam

## **QUESTION 127**

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:**

Explanation:

### **QUESTION 128**

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:**

Explanation:

#### **QUESTION 129**

Which codec does Cisco recommend for WAN links? Cisco 640-864: Practice Exam

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

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

### **QUESTION 130**

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

- A. Network address translation?¡iCport translation; translates RFC 1918 addresses to public IPv4 addresses
- B. Network address translation-protocol translation; translates between IPv4 and IPv6 addresses

- C. Next address translation?¡ìCport translation
- D. Network addressable transparent-port translation; translates network addresses to ports

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

### **QUESTION 131**

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) Cisco 640-864: Practice Exam
- C. Cisco Discovery Protocol (CDP)
- D. IGMP

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 132**

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

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

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

#### **QUESTION 133**

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:**

Explanation: Explanation

IPv6 uses 128-bit addresses rather than the 32-bit addresses in IPv4. This supports more address hierarchy levels and uses simpler address autoconfiguration.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 9

## **QUESTION 134**

Which protocol will be used to exchange IP routes between autonomous systems? Cisco 640-864: Practice Exam

- A. eBGP
- B. IGMP
- C. IGRP
- D. OSPF

Correct Answer: A Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

### **QUESTION 135**

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:**

Explanation:

#### **QUESTION 136**

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:**

Explanation:

#### **QUESTION 137**

What is SLC?

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

Correct Answer: C Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

## **QUESTION 138**

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:**

Explanation:

Cisco 640-864: Practice Exam

## **QUESTION 139**

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

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

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

## **QUESTION 140**

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

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

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

The local loop is the pair of wires that runs from the CO to the home or business office.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 14

#### **QUESTION 141**

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:**

Explanation:

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#### **QUESTION 142**

What is ASBR short for?

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

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

## **QUESTION 143**

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:**

Explanation:

#### **QUESTION 144**

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:** Explanation: Explanation

## **Congestion Management**

Two types of output queues are available on routers: the hardware queue and the software queue. The hardware queue uses the strategy of first in, first out (FIFO). The software queue schedules packets first and then places them in the hardware queue. Keep in mind that the software queue is used only during periods of congestion. The software queue uses QoS techniques such as priority Cisco 640-864: Practice Exam

queuing, custom queuing, weighted fair queuing, class-based weighted fair queuing, low-latency queuing, and traffic shaping and policing.

## **Priority Queuing**

Priority queuing (PQ) is a queuing method that establishes four interface output queues that serve different priority levels: high, medium, default, and low. Unfortunately, PQ can starve other queues if too much data is in one queue because higher-priority queues must be emptied before lower- priority queues.

#### **Custom Queuing**

Custom queuing (CQ) uses up to 16 individual output queues. Byte size limits are assigned to each queue so that when the limit is reached, it proceeds to the next queue. The network operator can customize these byte size limits. CQ is fairer than PQ because it allows some level of service to all traffic. This queuing method is considering legacy due to the improvements in the queuing methods.

## Weighted Fair Queuing

Weighted fair queuing (WFQ) ensures that traffic is separated into individual flows or sessions without requiring that you define ACLs. WFQ uses two categories to group sessions: high bandwidth and low bandwidth. Low-bandwidth traffic has priority over high-bandwidth traffic. High- bandwidth traffic shares the service according to assigned weight values. WFQ is the default QoS mechanism on interfaces below 2.0 Mbps.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 6

#### **QUESTION 145**

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

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

Correct Answer: B Section: (none) Explanation

### **Explanation/Reference:**

Explanation:

#### **QUESTION 146**

For the following items, which is an SP Edge module in the Enterprise Composite Network model? Cisco 640-864: Practice Exam

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

Correct Answer: C Section: (none) Explanation

### **Explanation/Reference:**

Explanation:

### **QUESTION 147**

What is important for the top-down design concept?

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

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

### **QUESTION 148**

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

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Correct Answer: A Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

Low-Latency Queuing

Low-latency queuing (LLQ) adds a strict priority queue (PQ) to CBWFQ. The strict PQ allows delay sensitive traffic such as voice to be sent first, before other queues are serviced. That gives voice preferential treatment over the other traffic types. Unlike priority queuing, LLQ provides for a maximum threshold on the PQ to prevent lower priority traffic from being starved by the PQ.

Without LLQ, CBWFQ would not have a priority queue for real-time traffic. The additional classification of other traffic classes is done using the same CBWFQ techniques. LLQ is the standard QoS method for many VoIP

networks.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 6

### **QUESTION 149**

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:**

Explanation:

## **QUESTION 150**

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:

Explanation:

Cisco 640-864: Practice Exam

#### **QUESTION 151**

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:**

Explanation:

# **QUESTION 152**

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. Cisco 640-864: Practice Exam

Correct Answer: A Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

### **QUESTION 153**

Which IPv4 field are the precedence bits located in?

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

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

ToS (Type of Service): This field is 8 bits in length. Quality of service (QoS) parameters such as IP precedence or DSCP are found in this field.

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 8

### **QUESTION 154**

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:**

**Explanation**: Explanation

# Access Layer

The access layer provides user access to local segments on the network. The access layer is characterized by switched LAN segments in a campus environment. Microsegmentation using LAN switches provides high bandwidth to workgroups by reducing the number of devices on Ethernet segments. Functions of the access layer include the following:

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 2 Cisco 640-864: Practice Exam

#### **QUESTION 155**

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

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

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

## **QUESTION 156**

Cisco 640-864: Practice Exam

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

# **Explanation/Reference:** Explanation: Explanation

Table. Network Delays

Fixed Delay	Description	
Propagation delay	6 ms per km. No solution	
Serialization delay	Frame length/bit rate. A faster link and smaller packets help reduce.	
Processing delay	Depends on codec used: coding, compression, and packetization. A hardware DSPs.	
Queuing delay	Variable packet sizes and number of packets. Use LLQ, CBWFQ, LFI.	
Jitter Caused by variable delay. Use dejitter buffers to make delay considering as much as possible for an uncongested network.		

Cisco Press CCDA 640-864 Official Certification Guide Fourth Edition, Chapter 14

## **QUESTION 157**

SNMP is short for Simple Network Management Protocol. Which version or versions of SNMP specify security extensions as part of the protocol definition? Cisco 640-864: Practice Exam

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

Correct Answer: C Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 158**

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

## **Explanation/Reference:**

Explanation:

#### **QUESTION 159**

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:**

Explanation:

## **QUESTION 160**

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

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

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Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

# **QUESTION 161**

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:**

Explanation:

#### **QUESTION 162**

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:**

Explanation:

## **QUESTION 163**

Cisco 640-864: Practice Exam

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

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

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

# **QUESTION 164**

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:**

Explanation:

### **QUESTION 165**

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

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

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

### **QUESTION 166**

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? Cisco 640-864: Practice Exam

- 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:**

Explanation:

## **QUESTION 167**

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:**

Explanation:

## **QUESTION 168**

Which item is not an SNMP operation?

A. GetNext

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

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

### **QUESTION 169**

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

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Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

#### **QUESTION 170**

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:**

Explanation:

# **QUESTION 171**

What does FCAPS stand for?

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

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

## Explanation:

### **QUESTION 172**

Which answer is correct about routing metrics?

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

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

### **QUESTION 173**

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

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

Correct Answer: BD Section: (none) Explanation

# **Explanation/Reference:** Explanation: Explanation

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With the Cisco UWN split-MAC operation, the control and data messages are split. LWAPs communicate with the WLCs using control messages over the wired network. LWAPP or CAPWAP data messages are encapsulated and forwarded to and from wireless clients. The WLC manages multiple APs, providing configuration information and firmware updates as needed.

LWAP MAC functions are

Controller MAC functions are

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## **QUESTION 174**

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:**

Explanation: Explanation

In the most general model, the Building Access layer uses Layer 2 switching (or Data link switching), and the Building Distribution layer uses multilayer switching.

#### **QUESTION 175**

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:**

Explanation: Explanation Cisco 640-864: Practice Exam

NANP has the address format of NXX-NXX-XXXX, where N is any number from 2 to 9 and X is any number from 0 to 9. The rst three digits identify the numbering plan area and are commonly called the area code. The address is further divided into the office code (also known as prefix) and line number. The prefix is three digits, and the line number is four digits. The line number identifies the phone.

#### **QUESTION 176**

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

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

Correct Answer: AC Section: (none) Explanation

### **Explanation/Reference:**

Explanation: Explanation

This submodule provides Layer 4 through Layer 7 services through security and application service devices such as load-balancing devices, SSL ofoading devices, rewalls, and IDS devices.

The Data Center Aggregation (distribution) layer aggregates the uplinks from the access layer to the Data Center Core layer and is the critical point for control and application services.

#### **QUESTION 177**

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

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Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 178**

When monitoring voice traffic on a converged network, which are the three most important QoS characteristics to pay attention to? (Choose three.) Cisco 640-864: Practice Exam

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

Correct Answer: ABC Section: (none)
Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 179**

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:**

Explanation:

### **QUESTION 180**

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

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- 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:**

Explanation:

### **QUESTION 181**

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:**

Explanation:

### **QUESTION 182**

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

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

Correct Answer: AB Section: (none) Explanation

## **Explanation/Reference:**

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Explanation: Explanation

The Implement phase relates to implement new devices, including verifying and testing so A and B are the most suitable options.

"Determining customer requirements" occurs in the Prepare phase, which identifies requirements and builds a conceptual architecture.

"Characterizing the existing network" belongs to the Plan phase; this step is performed to determine the infrastructure necessary to meet the requirements. In the "establishing the organizational requirements" step, the network topology is designed to meet the requirements and close the network gaps identified in the previous steps. This step is related to the Design Phase of the PPDIOO process.

## **QUESTION 183**

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

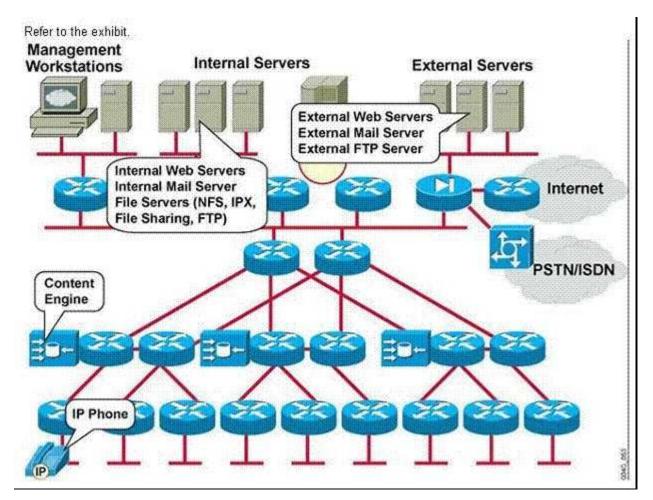
## **Explanation/Reference:**

Explanation:

## **QUESTION 184**

Refer to the exhibit.

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Which element or elements of the existing network infrastructure does this network map emphasize?

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

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 185**

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

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Correct Answer: D Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

### **QUESTION 186**

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:**

Explanation:

## **QUESTION 187**

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

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

- C. Place the DHCP server in the Enterprise Campus Core layer and Remote Access/VPN module with the DNS server in the Internet Connectivity module.
- D. Place the DHCP server in the Enterprise Campus Distribution layer with the DNS server in the Internet Connectivity module.

Correct Answer: B Section: (none) Explanation

## **Explanation/Reference:**

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

# **QUESTION 188**

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

A. RIPv1

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

Correct Answer: EF Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 189**

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

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

Correct Answer: BD Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

#### **QUESTION 190**

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:**

Explanation:

#### **QUESTION 191**

Which three of these are layers in the Cisco SONA Architecture? (Choose three.) Cisco 640-864: Practice Exam

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

Correct Answer: AEF Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

## **QUESTION 192**

What is the benefit of VLSM?

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

Correct Answer: C Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

## **QUESTION 193**

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:**

Explanation:

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#### **QUESTION 194**

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

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

Correct Answer: E Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

#### **QUESTION 195**

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:**

Explanation:

### **QUESTION 196**

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

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

D. Segment security policy decisions are based on trust.

Correct Answer: D Section: (none) Explanation

## **Explanation/Reference:**

Explanation:

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### **QUESTION 197**

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:**

Explanation:

#### **QUESTION 198**

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:**

Explanation:

Enterprise Edge functional area is composed of Following modules:

- E-commerce module: The E-commerce module includes the devices and services necessary for an organization to provide e-commerce applications.
- · Internet Connectivity module: The Internet Connectivity module provides enterprise users with Internet access.
- · Remote Access and VPN module: This module terminates VPN traffic and dial-in connections from external users.
- · WAN and MAN and Site-to-Site VPN module: This module provides connectivity between remote sites and the central site over various WAN technologies.

#### **QUESTION 199**

A campus network needs end-to-end QoS tools to manage traffic and ensure voice quality. Which Cisco 640-864: Practice Exam

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: ABE Section: (none) Explanation

# **Explanation/Reference:**

Explanation:

## **QUESTION 200**

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

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

Correct Answer: B Section: (none) Explanation

# **Explanation/Reference:**

Explanation:



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