Exam Questions 200-310
DESGN Designing for Cisco Internetwork Solutions
NEW QUESTION 1
A network engineer is following the Cisco enterprise architecture model. Where are aggregation switches found?

A. Enterprise Campus
B. Enterprise Edge
C. SP Edge WAN
D. Remote Module

Answer: A

NEW QUESTION 2
Which option do you use to provide dynamic utilization of WAN links based on latency?

A. policy-based routing
B. equal cost load balancing
C. unequal cost load balancing
D. Cisco Performance Routing

Answer: D

NEW QUESTION 3
Refer to the exhibit.

In this suboptimal design of a homogeneous Cisco network, which version of spanning tree provides the fastest convergence?

A. PVST+
B. CST
C. RPVST
D. VSTP
E. PVST

Answer: C

NEW QUESTION 4
Refer to the exhibit.
A network engineer at a technical call center receives a call from a customer complaining that only 56 kbps of data can be transferred over the T1 Frame Relay WAN circuit at a remote site. The engineer checks the Frame Relay switch and confirms that only 56 kbps is being transferred over the circuit. The engineer requests the router configuration of the customer headquarters site router. What is causing this issue to occur?

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

Answer: C

NEW QUESTION 5
Which two benefits are realized by establishing virtualization in a campus network? (Choose Two)

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

Answer: BD

Explanation:

NEW QUESTION 6
Which option is an example of a fixed two-level hierarchical routing protocol?

A. OSPF
B. RIPv2
C. EIGRP
D. static routes

Answer: A

NEW QUESTION 7
An engineer is designing a new modular network topology. What is one advantage to using a hierarchical design?

A. It supports unequal cost paths.
B. It provides additional fault tolerance.
C. It enables the network to scale.
D. It manually controls failover.

Answer: D

NEW QUESTION 8
What two addresses are defined under RFC 1918? (Choose two.)

A. 19.22.37.1  
B. 10.1.7.19  
C. 127.0.0.1  
D. 172.31.1.1  
E. 239.15.12.1  

**Answer:** BD

**NEW QUESTION 9**
A startup company wants to deploy the Cisco IP Telephony solution. Which two actions are appropriate design approaches? (Choose two.)

A. Connect user IP phones to the Ethernet switches of access layer.  
B. Connect IP phones to the Ethernet switches of data center module.  
C. Connect Cisco Unified Communications manager to the Ethernet switches of data center module.  
D. Connect SIP trunks for PSTN connectivity to Ethernet switches of campus core layer.  
E. Connect Cisco Unified Communications Manager to the Ethernet switches of the campus core layer.  

**Answer:** AE

**NEW QUESTION 10**
Which three layers comprise the traditional hierarchical model? (Choose three.)

A. core layer  
B. distribution layer  
C. access layer  
D. aggregation layer  
E. network layer  
F. Internet layer  

**Answer:** ABC

**NEW QUESTION 11**
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 +  

**Answer:** E

**NEW QUESTION 12**
Which type of structure consists of the addressing, routing protocols, QoS, and security components?

A. logical  
B. physical  
C. layered  
D. virtual  

**Answer:** A

**NEW QUESTION 13**
Which two methods are used to reduce the mesh links required between IBGP peers in the same AS? (Choose two.)

A. community  
B. route reflectors  
C. local preference  
D. confederations  
E. atomic aggregate  

**Answer:** BD

**NEW QUESTION 14**
Which Cisco security mechanism has the attributes listed below?  
• 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  

A. IKE  
B. PIX  
C. HIPS  
D. NIDS  

**Answer:**
NEW QUESTION 15
A network design engineer is seeking a dynamic routing protocol that supports fast convergence in a Cisco environment. What protocol allows for this?

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

Answer: A

NEW QUESTION 16
Which two design decision can improve network resiliency (Choose two)?

A. Implement redundant link  
B. Increase data plane bandwidth  
C. Implement serial device connection  
D. Reduce network size  
E. Implement redundant topology

Answer: AE

NEW QUESTION 17
A consultant at Company XYZ connects to the Guest wireless network but cannot reach the MGMT VLAN to complete an audit. Other users can connect to the MGMT VLAN without any issues. Why is the consultant unable to access the MGMT VLAN?

A. The AP is offline  
B. The access is not permitted  
C. The MGMT VLAN is down  
D. The WLC is offline

Answer: B

NEW QUESTION 18
Cisco Identity-Based Networking Services relies heavily on the 802.1X protocol. Which other authentication solution is used hand-in-hand with 802.1X to authenticate users for network access?

A. RADIUS  
B. LEAP  
C. IPSec  
D. TACACS  
E. ISAKMP

Answer: A

Explanation:
Cisco Identity-Based Network Services solution is a way to authenticate host access based on policy for admission to the network. IBNS supports identity authentication, dynamic provisioning of VLANs on a per-user basis, guest VLANs, and 802.1X with port security. The 802.1 X protocol is a standards-based protocol for authenticating network clients by permitting or denying access to the network. The 802.1 X protocol operates between the end-user client seeking access and an Ethernet switch or wireless access point (AP) providing the connection to the network. In 802.1 X terminology, clients are called supplicants, and switches and APs are called authenticates. A back-end RADIUS server such as a Cisco Access Control Server (ACS) provides the user account database used to apply authentication and authorization. With an IBNS solution, the host uses 802.1X and Extensible Authentication Protocol over LANs (EAPoL) to send the credentials and initiate a session to the network. After the host and switch establish LAN connectivity, username and password credentials are requested. The client host then sends the credentials to the switch, which forwards them to the RADIUS ACS. The RADIUS ACS performs a lookup on the username and password to determine the credentials' validity. If the username and password are correct, an accept message is sent to the switch or AP to allow access to the client host. If the username and password are incorrect, the server sends a message to the switch or AP to block the host port. Figure 13-4 illustrates the communication flow of two hosts using 802.1X and KAPoL with the switch, AP, and back-end RADIUS server.

NEW QUESTION 19
What is the benefit of using VLSM?

A. To save a wasting of IP Address  
B. To expand a subnet

Answer: A

NEW QUESTION 20
You want to gather as much detail as possible during a network audit with a minimal impact on the network devices themselves. Which tool would you use to include data time stamping across a large number of interfaces while being customized according to each interface?
A. RMON
B. SNMPv3
C. NetFlow
D. Cisco Discovery Protocol

**Answer:** C

**NEW QUESTION 21**

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