Vendor: CISCO

Exam Code: 640-816

Exam Name: Cisco Interconnecting Cisco Networking Devices Part 2
QUESTION 1
Refer to the exhibit. The network shown in the exhibit has just been installed. Host B can access the Internet, but it is unable to ping host C. What is the problem with this configuration?

A. Host B should be in VLAN 13.
B. The address of host C is incorrect.
C. The gateway for host B is in a different subnet than the host is on.
D. The switch port that sends VLAN 13 frames from the switch to the router is shut down.
E. The switch port connected to the router is incorrectly configured as an access port.

Answer: B

QUESTION 2
What is the default Local Management Interface frame type transmitted by a Cisco router on a Frame Relay circuit?

A. Q933a
B. B8ZS
C. IETF
D. Cisco
E. ANSI

Answer: D
QUESTION 3
Refer to the graphic and routing table for router R1. Based on the output of the R1# show ip route command and the information presented in the graphic, which of the following is a potential routing problem?

A. the use of summarization for discontiguous networks
B. the use of CIDR with a routing protocol that does not support it
C. the use of VLSM with a routing protocol that does not support it
D. the use of the no auto-summary command with a protocol that does not support summarization
E. the use of the ip route 0.0.0.0 0.0.0.0 command with a routing protocol that does not support it

Answer: A

QUESTION 4
An administrator is troubleshooting a problem between routers that are using different versions of RIP. Which two commands would provide information about which version of RIP are being used?
RIP was being sent and received on an interface? (Choose two.)

A. show ip protocols
B. show ip route rip
C. show interfaces
D. debug rip routing
E. debug ip rip

Answer: AE

QUESTION 5
A network engineer wants to allow a temporary entry for a remote user with a specific username and password so that the user can access the entire network over the Internet. Which ACL can be used?

A. standard
B. extended
C. dynamic
D. reflexive

Answer: C

QUESTION 6
An organization is concerned that too many employees are wasting company time accessing the Internet. Which access list statement would stop World Wide Web access for employees on the range of subnets from 172.16.8.0/24 to 172.16.11.0/24?

A. access-list 103 deny tcp 172.16.8.0 0.0.0.3 any eq 80
B. access-list 103 deny tcp 172.16.8.0 0.0.3.255 any eq 80
C. access-list 103 deny http 172.16.8.0 0.0.7.255 any
D. access-list 103 deny tcp any 172.16.8.0 0.0.3.255 eq 80
E. access-list 103 deny tcp 172.16.8.0 0.0.11.255 any eq 80

Answer: B
QUESTION 7
Which two data integrity algorithms are commonly used in VPN solutions? (Choose two.)

A. DH1
B. DH2
C. HMAC-MD5
D. HMAC-SHA-1
E. RSA

Answer: CD

QUESTION 8
What are three benefits of implementing VLANs? (Choose three.)

A. A higher level of network security can be reached by separating sensitive data traffic from other network traffic.
B. A more efficient use of bandwidth can be achieved allowing many physical groups to use the same network infrastructure.
C. A more efficient use of bandwidth can be achieved allowing many logical networks to use the same network infrastructure.
D. Broadcast storms can be mitigated by increasing the number of broadcast domains, thus reducing their size.
E. Broadcast storms can be mitigated by decreasing the number of broadcast domains, thus increasing their size.
F. VLANs make it easier for IT staff to configure new logical groups, because the VLANs all belong to the same broadcast domain.
G. Port-based VLANs increase switch-port use efficiency, thanks to 802.1Q trunks.

Answer: ACD

QUESTION 9
What are two benefits of using NAT? (Choose two.)

A. NAT facilitates end-to-end communication when IPsec is enabled.
B. NAT eliminates the need to re-address all hosts that require external access.
C. NAT conserves addresses through host MAC-level multiplexing.
D. Dynamic NAT facilitates connections from the outside of the network.
E. NAT accelerates the routing process because no modifications are made on the packets.
F. NAT protects network security because private networks are not advertised.

**Answer:** BF

**QUESTION 10**
A network administrator must configure 200 switch ports to accept traffic from only the currently attached host devices. What would be the most efficient way to configure MAC-level security on all these ports?

A. Visually verify the MAC addresses and then telnet to the switches to enter the switchport-port security mac-address command.
B. Have end users e-mail their MAC addresses. Telnet to the switch to enter the switchport-port security mac-address command.
C. Use the switchport port-security MAC address sticky command on all the switch ports that have end devices connected to them.
D. Use show mac-address-table to determine the addresses that are associated with each port and then enter the commands on each switch for MAC address port-security.

**Answer:** C

**QUESTION 11**
Select the action that results from executing these commands.

```
Switch(config-if)# switchport port-security
Switch(config-if)# switchport port-security mac-address sticky
```

A. A dynamically learned MAC address is saved in the startup-configuration file.
B. A dynamically learned MAC address is saved in the running-configuration file.
C. A dynamically learned MAC address is saved in the VLAN database.
D. Statically configured MAC addresses are saved in the startup-configuration file if frames from that address are received.
E. Statically configured MAC addresses are saved in the running-configuration file if
frames from that address are received.

Answer: B

**QUESTION 12**
Which three statements about VTP features are true? (Choose three.)

A. VTP works at Layer 3 of the OSI model and requires that a management VLAN IP address be configured.
B. When properly configured, VTP minimizes VLAN misconfigurations and configuration inconsistencies.
C. When properly configured, VTP maintains VLAN configuration consistency and accelerates trunk link negotiation.
D. Each broadcast domain on a switch can have its own unique VTP domain.
E. VTP pruning is used to increase available bandwidth in trunk links.
F. To configure a switch to be part of two VTP domains, each domain must have its own passwords.
G. Client, server, and transparent are valid VTP modes.

Answer: BEG

**QUESTION 13**
Which command is necessary to permit SSH or Telnet access to a Cisco switch that is otherwise configured for these vty line protocols?

A. transport output all
B. transport preferred all
C. transport type all
D. transport input all

Answer: D

**QUESTION 14**
A router is running three routing processes: RIP, OSPF, and EIGRP, each configured with
default characteristics. Each process learns a route to the same remote network. If there are no static routes to the destination and none of the routes were redistributed, which route will be placed in the IP routing table?

A. the route learned through EIGRP  
B. the route learned through OSPF  
C. the route learned through RIP  
D. the route with the lowest metric  
E. all three routes with the router load balancing

Answer: A

QUESTION 15
A network administrator needs to allow only one Telnet connection to a router. For anyone viewing the configuration and issuing the show run command, the password for Telnet access should be encrypted. Which set of commands will accomplish this task?

A. service password-encryption  
   access-list1 permit 192.168.1.0.0.0.0.255  
   line vty0 4  
   login  
   password cisco  
   access-class 1

B. enable password secret  
   line vty0  
   login  
   password cisco

C. service password-encryption  
   line vty0  
   login  
   password cisco

D. service password-encryption  
   line vty0 4  
   login  
   password cisco
QUESTION 16
Which two statements about using the CHAP authentication mechanism in a PPP link are true? (Choose two.)

A. CHAP uses a two-way handshake.
B. CHAP uses a three-way handshake.
C. CHAP authentication periodically occurs after link establishment.
D. CHAP authentication passwords are sent in plaintext.
E. CHAP authentication is performed only upon link establishment.
F. CHAP has no protection from playback attacks.

Answer: BC

QUESTION 17
What are two characteristics of a switch that is configured as a VTP client? (Choose two.)

A. If a switch that is configured to operate in client mode cannot access a VTP server, then the switch reverts to transparent mode.
B. On switches that are configured to operate in client mode, VLANs can be created, deleted, or renamed locally.
C. The local VLAN configuration is updated only when an update that has a higher configuration revision number is received.
D. VTP advertisements are not forwarded to neighboring switches that are configured in VTP transparent mode.
E. VTP client is the default VTP mode.
F. When switches in VTP client mode are rebooted, they send a VTP advertisement request to the VTP servers.

Answer: CF

QUESTION 18
Which statement about IPv6 is true?

A. Addresses are not hierarchical and are assigned at random.
B. Only one IPv6 address can exist on a given interface.
C. There are 2.7 billion addresses available.
D. Broadcasts have been eliminated and replaced with multicasts.

**Answer:** D

**QUESTION 19**
Which three elements must be used when you configure a router interface for VLAN trunking? (Choose three.)

A. one physical interface for each subinterface
B. one IP network or subnetwork for each subinterface
C. a management domain for each subinterface
D. subinterface encapsulation identifiers that match VLAN tags
E. one subinterface per VLAN
F. subinterface numbering that matches VLAN tags

**Answer:** BDE