

CCNA 200-125 (406 Questions)

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Exam Name: CCNA Cisco Certified Network Associate CCNA (v3.0)

Innovior IT Tech



Q&A

CCNA Cisco Certified Network Associate CCNA (v3.0)
200-125

(406 Questions)

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QUESTION 1

Which technology supports the stateless assignment of IPv6 addresses (Choose two) ?

- A. DNS
- B. DHCPv6
- C. DHCP
- D. autoconfiguration

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

After you configure the Loopback0 interface, which command can you enter to verify the status of the interface and determine whether fast switching is enabled?

- A. Router#show ip interface loopback 0
- B. Router#show run
- C. Router#show interface loopback 0
- D. Router#show ip interface brief

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

What are two requirements for an HSRP group? (Choose two.)

- A. exactly one active router
- B. one or more standby routers
- C. one or more backup virtual routers
- D. exactly one standby active router
- E. exactly one backup virtual router

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

Which command sequence can you enter to create VLAN 20 and assign it to an interface on a switch?

- A. Switch(config)#vlan 20
Switch(config)#Interface gig x/y
Switch(config-if)#switchport access vlan 20

- B. Switch(config)#Interface gig x/y
Switch(config-if)#vlan 20
Switch(config-vlan)#switchport access vlan 20
- C. Switch(config)#vlan 20
Switch(config)#Interface vlan 20
Switch(config-if)#switchport trunk native vlan 20
- D. Switch(config)#vlan 20
Switch(config)#Interface vlan 20
Switch(config-if)#switchport access vlan 20
- E. Switch(config)#vlan 20
Switch(config)#Interface vlan 20
Switch(config-if)#switchport trunk allowed vlan 20

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

Which three commands can you use to set a router boot image? (Choose three.)

- A. Router(config)# boot system flash c4500-p-mz.121-20.bin
- B. Router(config)# boot system tftp c7300-js-mz.122-33.SB8a.bin
- C. Router(config)#boot system rom c7301-adviservicesk9-mz.124-24.T4.bin
- D. Router> boot flash: c180x-adventuresek9-mz-124-6T.bin
- E. Router(config)#boot flash:c180x-adventuresek9-mz-124-6T.bin
- F. Router(config)#boot bootldr bootflash:c4500-jk9s-mz.122-23f.bin

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Which two statements about IPv6 and routing protocols are true? (Choose two.)

- A. EIGRPv3 was developed to support IPv6 routing.
- B. OSPFv3 was developed to support IPv6 routing.
- C. Loopback addresses are used to form routing adjacencies.
- D. EIGRP, OSPF, and BGP are the only routing protocols that support IPv6.
- E. Link-local addresses are used to form routing adjacencies.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

If primary and secondary root switches with priority 16384 both experience catastrophic losses, which tertiary

switch can take over?

- A. a switch with priority 20480
- B. a switch with priority 8192
- C. a switch with priority 4096
- D. a switch with priority 12288

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Which two statements about late collisions are true? (Choose two.)

- A. They may indicate a duplex mismatch.
- B. By definition, they occur after the 512th bit of the frame has been transmitted.
- C. They indicate received frames that did not pass the FCS match.
- D. They are frames that exceed 1518 bytes.
- E. They occur when CRC errors and interference occur on the cable.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Which command can you enter to set the default route for all traffic to an interface?

- A. router(config)#ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/1
- B. router(config)#ip route 0.0.0.0 255.255.255.255 GigabitEthernet0/1
- C. router(config-router)#default-information originate
- D. router(config-router)#default-information originate always

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Which two spanning-tree port states does RSTP combine to allow faster convergence? (Choose two.)

- A. blocking
- B. listening
- C. learning
- D. forwarding
- E. discarding

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

If a router has four interfaces and each interface is connected to four switches, how many broadcast domains are present on the router?

- A. 1
- B. 2
- C. 4
- D. 8

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

Which command enables IPv6 forwarding on a cisco router?

- A. ipv6 host
- B. ipv6 unicast-routing
- C. ipv6 local
- D. ipv6 neighbor

Correct Answer: B

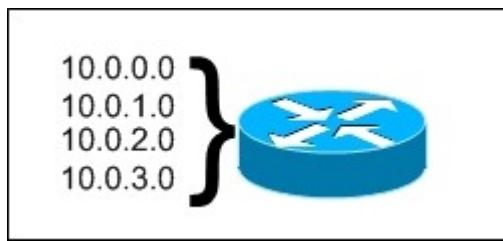
Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

Refer to the exhibit.



What is the most appropriate summarization for these routes?

- A. 10.0.0.0 /21
- B. 10.0.0.0 /22
- C. 10.0.0.0 /23
- D. 10.0.0.0 /24

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which set of commands is recommended to prevent the use of a hub in the access layer?

- A. switch(config-if)#switchport mode trunk
switch(config-if)#switchport port-security maximum 1
- B. switch(config-if)#switchport mode trunk
switch(config-if)#switchport port-security mac-address 1
- C. switch(config-if)#switchport mode access
switch(config-if)#switchport port-security maximum 1
- D. switch(config-if)#switchport mode access
switch(config-if)#switchport port-security mac-address 1

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

A router has learned three possible routes that could be used to reach a destination network. One route is from EIGRP and has a composite metric of 20514560. Another route is from OSPF with a metric of 782. The last is from RIPv2 and has a metric of 4.

Which route or routes will the router install in the routing table?

- A. the OSPF route
- B. the EIGRP route
- C. the RIPv2 route
- D. all three routes
- E. the OSPF and RIPv2 routes

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Two routers named Atlanta and Brevard are connected via their serial interfaces as illustrated, but they are unable to communicate. The Atlanta router is known to have the correct configuration.

Atlanta	Brevard
	
S0	S1
<pre>Atlanta#sh int s0 Serial0 is up, line protocol is down Hardware is HD64570 Internet address is 192.168.10.1/24 MTU 1500 bytes, BW 1544 Kbit, reliability 255/255 Encapsulation HDLC, loopback not set Keepalive set (10 sec)</pre>	<pre>Brevard#sh int s1 Serial1 is up, line protocol is down Hardware is HD64570 Internet address is 192.168.10.2/24 MTU 1500 bytes, BW 1544 Kbit, reliability 255/255, Encapsulation PPP, loopback not set Keepalive set (10 sec) LCP Listen Closed: IPCP, CDP CP</pre>

Given the partial configurations, identify the fault on the Brevard router that is causing the lack of connectivity.

- A. incompatible IP address
- B. insufficient bandwidth
- C. incorrect subnet mask
- D. incompatible encapsulation
- E. link reliability too low
- F. IPCP closed

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

A network administrator needs to configure a serial link between the main office and a remote location. The router at the remote office is a non-cisco router. How should the network administrator configure the serial interface of the main office router to make the connection?

- A. Main(config)#interface serial 0/0


```
Main(config-if)#ip address 172.16.1.1 255.255.255.252
Main(config-if)#no shut
```
- B. Main(config)#interface serial 0/0


```
Main(config-if)#ip address 172.16.1.1 255.255.255.252
Main(config-if)#encapsulation ietf
Main(config-if)#no shut
```
- C. Main(config)#interface serial 0/0


```
Main(config-if)#ip address 172.16.1.1 255.255.255.252
Main(config-if)#encapsulation frame-relay
Main(config-if)#authentication chap
Main(config-if)#no shut
```
- D. Main(config)#interface serial 0/0


```
Main(config-if)#ip address 172.16.1.1 255.255.255.252
Main(config-if)#encapsulation ppp
Main(config-if)#no shut
```

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Which layer 2 protocol encapsulation type supports synchronous and asynchronous circuits and has built-in security mechanisms?

- A. Frame Relay
- B. HDLC
- C. x.25
- D. PPP

Correct Answer: D

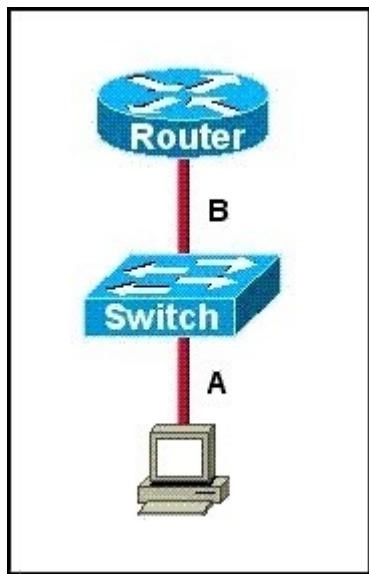
Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

Refer to the exhibit.



The two connected ports on the switch are not turning orange or green. What would be the most effective steps to troubleshoot this physical layer problem? (Choose three.)

- A. Ensure that the Ethernet encapsulations match on the interconnected router and switch ports.
- B. Ensure that cables A and B are straight-through cables.
- C. Ensure cable A is plugged into a trunk port.
- D. Ensure the switch has power.
- E. Reboot all of the devices.
- F. Reseat all cables.

Correct Answer: BDF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

A network administrator is troubleshooting the OSPF configuration of routers R1 and R2. The routers cannot establish an adjacency relationship on their common Ethernet link. The graphic shows the output

of the show ip ospf interface e0 command for routers R1 and R2. Based on the information in the graphic, what is the cause of this problem?

R1:	Ethernet0 is up, line protocol is up Internet address 192.168.1.2/24, Area 0 Process ID 1, Router ID 192.168.31.33, Network Type BROADCAST, Cost: 10 Transmit Delay is 1 sec, State DR, Priority 1 Designated Router (ID) 192.168.31.33, Interface address 192.168.1.2 No backup designated router on this network Timer intervals configured, Hello 5, Dead 20, Wait 20, Retransmit 5
R2:	Ethernet0 is up, line protocol is up Internet address 192.168.1.1/24, Area 0 Process ID 2, Router ID 192.168.31.11, Network Type BROADCAST, Cost: 10 Transmit Delay is 1 sec, State DR, Priority 1 Designated Router (ID) 192.168.31.11, Interface address 192.168.1.1 No backup designated router on this network Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5

- A. The OSPF area is not configured properly.
- B. The priority on R1 should be set higher.
- C. The cost on R1 should be set higher.
- D. The hello and dead timers are not configured properly.
- E. A backup designated router needs to be added to the network.
- F. The OSPF process ID numbers must match.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

What will happen if a private IP address is assigned to a public interface connected to an ISP?

- A. Addresses in a private range will be not routed on the Internet backbone.
- B. Only the ISP router will have the capability to access the public network.
- C. The NAT process will be used to translate this address in a valid IP address.
- D. Several automated methods will be necessary on the private network.
- E. A conflict of IP addresses happens, because other public routers can use the same range.

Correct Answer: A

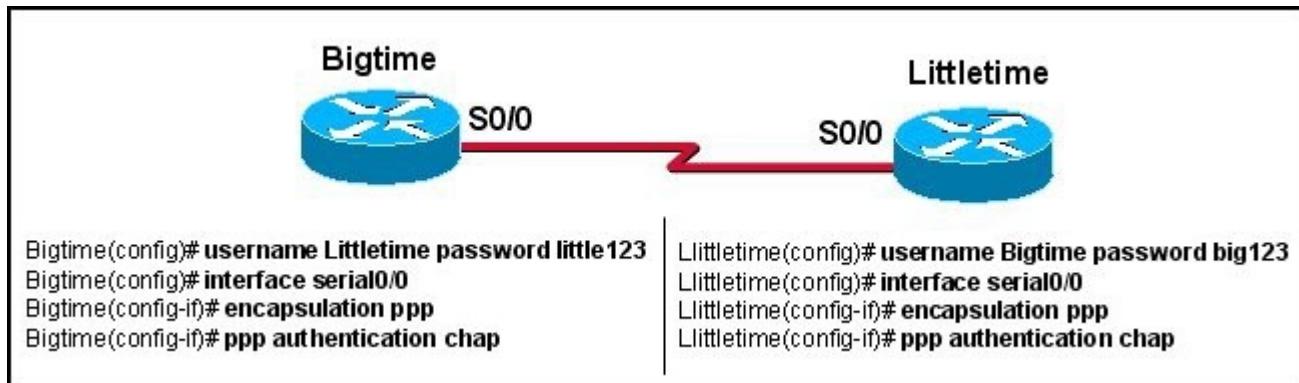
Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Refer to the exhibit.



The Bigtime router is unable to authenticate to the Littletime router.

What is the cause of the problem?

- A. The usernames are incorrectly configured on the two routers.
- B. The passwords do not match on the two routers.
- C. CHAP authentication cannot be used on a serial interface.
- D. The routers cannot be connected from interface S0/0 to interface S0/0.
- E. With CHAP authentication, one router must authenticate to another router. The routers cannot be configured to authenticate to each other.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

What will be the result if the following configuration commands are implemented on a Cisco switch? 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.

Correct Answer: B

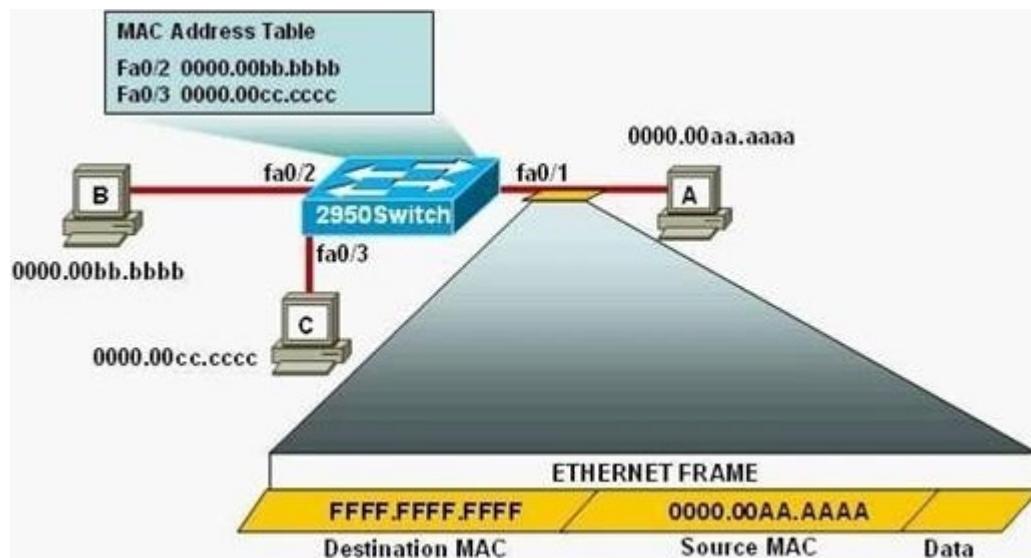
Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Refer to the exhibit.



The following commands are executed on interface fa0/1 of 2950Switch.

```
2950Switch(config-if)# switchport port-security
2950Switch(config-if)# switchport port-security mac-address sticky
2950Switch(config-if)# switchport port-security maximum 1
```

The Ethernet frame that is shown arrives on interface fa0/1.

What two functions will occur when this frame

- The MAC address table will now have an additional entry of fa0/1 FFFF.FFFF.FFFF.
- Only host A will be allowed to transmit frames on fa0/1.
- This frame will be discarded when it is received by 2950Switch.
- All frames arriving on 2950Switch with a destination of 0000.00aa.aaaa will be forwarded out fa0/1.
- Hosts B and C may forward frames out fa0/1 but frames arriving from other switches will not be forwarded out fa0/1.
- Only frames from source 0000.00bb.bbbb, the first learned MAC address of 2950Switch, will be forwarded out fa0/1.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

Which command would you configure globally on a Cisco router that would allow you to view directly connected Cisco devices?

- R(config-if)#cdp run
- R(config-if)#cdp enable
- R(config)#cdp run
- R(config)#cdp enable

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

A cisco router is booting and has just completed the POST process. It is now ready to find and load an IOSimage.

What function does the router perform next?

- A. It checks the configuration register
- B. It attempts to boot from a TFTP server
- C. It loads the first image file in flash memory
- D. It inspects the configuration file in NVRAM for boot instructions

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

What are three advantages of VLANs? (Choose three.)

- A. They establish broadcast domains in switched networks.
- B. They utilize packet filtering to enhance network security.
- C. They provide a method of conserving IP addresses in large networks.
- D. They provide a low-latency internetworking alternative to routed networks.
- E. They allow access to network services based on department, not physical location.
- F. They can simplify adding, moving, or changing hosts on the network.

Correct Answer: AEF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Refer to the exhibit.

```

Switch# show spanning-tree vlan 30
VLAN0030
Spanning tree enabled protocol rstp
Root ID Priority 24606
Address 00d0.047b.2800
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 24606 (priority 24576 sys-id-ext 30)
Address 00d0.047b.2800
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300
Interface Role Sts Cost Prio.Nbr Type
----- ----- --- ----- -----
Fa1/1 Desg FWD 4 128.1 p2p
Fa1/2 Desg FWD 4 128.2 p2p
Fa5/1 Desg FWD 4 128.257 p2p

```

The output that is shown is generated at a switch.
Which three of these statements are true? (Choose three.)

- A. All ports will be in a state of discarding, learning, or forwarding.
- B. Thirty VLANs have been configured on this switch.
- C. The bridge priority is lower than the default value for spanning tree.
- D. All interfaces that are shown are on shared media.
- E. All designated ports are in a forwarding state.
- F. The switch must be the root bridge for all VLANs on this switch.

Correct Answer: ACE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

Which two commands can be used to verify a trunk link configurationt status on a given cisco switch? (Choose two)

- A. show interfaces interface
- B. show interfaces trunk
- C. show interfaces switchport
- D. show ip interface brief
- E. show interfaces vlan

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

Which two states are the port states when RSTP has converged?(choose two)

- A. blocking
- B. learning
- C. discarding
- D. forwarding
- E. listening

Correct Answer: CD

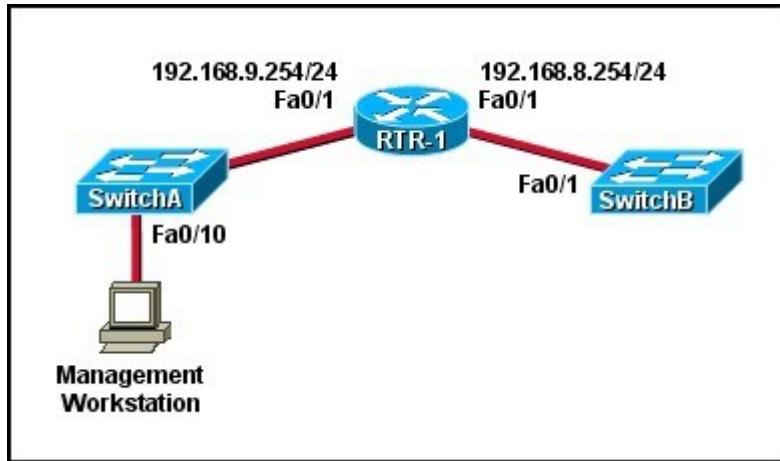
Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

Refer to the exhibit.



A technician has installed SwithchB and needs to configure it for remote access from the management workstation connected SwitchA.

Which set of commands is required to accomplish this task?

- A. SwitchB(config)#interface FastEthernet 0/1
SwitchB(config)#ip address 192.168.8.252 255.255.255.0 SwitchB(config)#no shutdown
- B. SwitchB(config)#ip default-gateway 192.168.8.254
SwitchB(config)#interface vlan 1
SwitchB(config)#ip address 192.168.8.252 255.255.255.0 SwitchB(config)#no shutdown
- C. SwitchB(config)#interface vlan 1
SwitchB(config)#ip address 192.168.8.252 255.255.255.0 SwitchB(config)#ip default-gateway 192.168.8.254 255.255.255.0 SwitchB(config)#no shutdown
- D. SwitchB(config)#ip default-network 192.168.8.254
SwitchB(config)#interface vlan 1
SwitchB(config)#ip address 192.168.8.252 255.255.255.0 SwitchB(config)#no shutdown

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

Which of the following are benefits of VLANs? (Choose three.)

- A. They increase the size of collision domains.
- B. They allow logical grouping of users by function.
- C. They can enhance network security.
- D. They increase the size of broadcast domains while decreasing the number of collision domains.
- E. They increase the number of broadcast domains while decreasing the size of the broadcast domains.
- F. They simplify switch administration.

Correct Answer: BCE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

What are three benefits of implementing vlans?(choose three)

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

Correct Answer: CEF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Which three statements accurately describe layer 2 Ethernet switches?(choose three)

- A. Micro segmentation decreases the number of collisions on the network.
- B. if a switch receives a frame for an unkown destination, it uses ARP to resolve the address.
- C. Spanning Tree Protocol allows switches to automatically share vlan information.
- D. In a properly functioning network with redundant switched paths, each switched aegment will contain one root bridge with all its ports in the forwarding state. All other switches in that broadcast domain will have only one root port.
- E. Establishing vlans increases the number of broadcast domains.
- F. Switches that are configured with vlans make forwarding decisions based on both layer 2 and layer 3 address information.

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

Which two correctly describe steps in the OSI data encapsulation process? (Choose two.)

- A. The transport layer divides a data stream into segments and may add reliability and flow control information.
- B. The data link layer adds physical source and destination addresses and an FCS to the segment.
- C. Packets are created when the network layer encapsulates a frame with source and destination host addresses and protocol-related control information.
- D. Packets are created when the network layer adds Layer 3 addresses and control information to a segment.
- E. The presentation layer translates bits into voltages for transmission across the physical link.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

Which of the following describes the roles of devices in a WAN? (Choose three.)

- A. A CSU/DSU terminates a digital local loop
- B. A modem terminates a digital local loop
- C. A CSU/DSU terminates an analog local loop
- D. A modem terminates an analog local loop
- E. A router is commonly considered a DTE device
- F. A router is commonly considered a DCE device

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Which interface counter can you use to diagnose a duplex mismatch problem?

- A. no earner B. late collisions
- B. giants
- C. CRC errors
- D. deferred
- E. runts

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Which feature can you implement to reserve bandwidth for VoIP calls across the call path?

- A. PQ
- B. CBWFQ
- C. round robin
- D. RSVP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

When implemented on all nodes in the path, RSVP guarantees bandwidth for the call along the entire path for the entire duration of the call. This is the only technique that achieves this level of accuracy.

QUESTION 39

When an interface is configured with PortFast BPDU guard, how does the interface respond when it receives a BPDU?

- A. It continues operating normally.
- B. It goes into a down/down state.
- C. It becomes the root bridge for the configured VLAN.
- D. It goes into an errdisable state.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

What are three characteristics of the TCP protocol? (Choose three.)

- A. It uses a single SYN-ACK message to establish a connection.
- B. The connection is established before data is transmitted.
- C. It ensures that all data is transmitted and received by the remote device.
- D. It supports significantly higher transmission speeds than UDP.
- E. It requires applications to determine when data packets must be retransmitted.
- F. It uses separate SYN and ACK messages to establish a connection.

Correct Answer: BCF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

Which command can you enter to determine whether serial interface 0/2/0 has been configured using HDLC

encapsulation?

- A. router#show platform
- B. router#show interfaces Serial 0/2/0
- C. router#show ip interface s0/2/0
- D. router#show ip interface brief

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

Which two statements about IPv4 multicast traffic are true? (Choose two.)

- A. It burdens the source host without affecting remote hosts.
- B. It uses a minimum amount of network bandwidth.
- C. It is bandwidth-intensive.
- D. It simultaneously delivers multiple streams of data.
- E. It is the most efficient way to deliver data to multiple receivers.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

What are two benefits of private IPv4 IP addresses? (Choose two.)

- A. They are routed the same as public IP addresses.
- B. They are less costly than public IP addresses.
- C. They can be assigned to devices without Internet connections.
- D. They eliminate the necessity for NAT policies.
- E. They eliminate duplicate IP conflicts.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

What is the authoritative source for an address lookup?

- A. a recursive DNS search
- B. the operating system cache
- C. the ISP local cache
- D. the browser cache

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

Which command can you enter to verify that a BGP connection to a remote device is established?

- A. show ip bgp summary
- B. show ip community-list
- C. show ip bgp paths
- D. show ip route

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

During which phase of PPPoE is PPP authentication performed?

- A. the PPP Session phase
- B. Phase 2
- C. the Active Discovery phase
- D. the Authentication phase
- E. Phase 1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

Which three circumstances can cause a GRE tunnel to be in an up/down state? (Choose three.)

- A. The tunnel interface IP address is misconfigured.
- B. The tunnel interface is down.
- C. A valid route to the destination address is missing from the routing table.
- D. The tunnel address is routed through the tunnel itself.
- E. The ISP is blocking the traffic.
- F. An ACL is blocking the outbound traffic.

Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

Which two statements about using leased lines for your WAN infrastructure are true? (Choose two.)

- A. Leased lines provide inexpensive WAN access.
- B. Leased lines with sufficient bandwidth can avoid latency between endpoints.
- C. Leased lines require little installation and maintenance expertise.
- D. Leased lines provide highly flexible bandwidth scaling.
- E. Multiple leased lines can share a router interface.
- F. Leased lines support up to T1 link speeds.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

Which two statements about wireless LAN controllers are true? (Choose two.)

- A. They can simplify the management and deployment of wireless LANs.
- B. They rely on external firewalls for WLAN security.
- C. They are best suited to smaller wireless networks.
- D. They must be configured through a GUI over HTTP or HTTPS.
- E. They can manage mobility policies at a systemwide level.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

Which two statements about northbound and southbound APIs are true? (Choose two.)

- A. Only southbound APIs allow program control of the network.
- B. Only northbound APIs allow program control of the network.
- C. Only southbound API interfaces use a Service Abstraction Layer.
- D. Only northbound API interfaces use a Service Abstraction Layer.
- E. Both northbound and southbound API interfaces use a Service Abstraction Layer.
- F. Both northbound and southbound APIs allow program control of the network.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

Which statement about RADIUS security is true?

- A. It supports EAP authentication for connecting to wireless networks.

- B. It provides encrypted multiprotocol support.
- C. Device-administration packets are encrypted in their entirety.
- D. It ensures that user activity is fully anonymous.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

If you are configuring syslog messages specifying 'logging trap warning', which log messages will the router send?

- A. 0-4
- B. 0-5
- C. 0-6
- D. 0-2
- E. 0-1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

- 0 emergencies System is unusable
- 1 alerts immediate action is needed
- 2 critical conditions exist
- 3 errors Error conditions exist
- 4 warnings Warning conditions exist
- 5 notification Normal, but significant, conditions exist
- 6 informational messages
- 7 debugging messages

QUESTION 53

Which command can you enter to configure an IPV6 floating static route?

- A. Router(config)# ipv6 route FE80:0202::/32 serail 0/1 201
- B. Router(config)# ipv6 route::/0 serail0/1
- C. Router(config)# ipv6 route static resolve default
- D. Router(config)# ipv6 route FE80:0202::/32 serail 0/1 1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

What is true about Ethernet? (Choose Two.)

- A. 802.2 Protocol
- B. 802.3 Protocol
- C. 10BaseThalf duplex
- D. CSMA/CD Stops transmitting when congestion occurs
- E. CSMA/CA Stops transmitting when congestion occurs

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

<http://www.ieee802.org/3/> CSMA/CD - It uses a carrier sensing scheme in which a transmitting station detects collisions by sensing transmissions from other stations while transmitting a frame. When this collision condition is detected, the station stops transmitting that frame.

QUESTION 55

Which function does IP SLA ICMP ECHO operation perform to assist with troubleshooting

- A. packet-loss detection
- B. congestion detection
- C. hop-by-hop response time
- D. one way jitter measurement

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

IP SLA generates ICMP traffic and measures Round Trip Delay for entire path http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipsla/configuration/15-mt/sla-15-mt-book/sla_icmp_echo.html

QUESTION 56

What are types of IPv6 static routes? (Choose Three.)

- A. Recursive routes
- B. Directly connected routes
- C. Fully specified routes
- D. Advertised routes
- E. Virtual links
- F. Redistributed routes

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

How to configure RIPv2? (Choose Two.)

- A. Enable RIP

- B. Connect RIP to WAN interface
- C. Enable no auto-summary
- D. Enable authentication

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

What is the status of port-channel if LACP is misconfigured?

- A. Forwarding
- B. Enabled
- C. Disabled
- D. errdisabled

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

What is true about DTP? (Choose Three.)

- A. Layer 2 protocol
- B. Layer 3 protocol
- C. Proprietary protocol
- D. enabled by default
- E. disabled by default

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

How to create a trunk port and allow VLAN 20? (Choose Three.)

- A. switchport trunk encapsulation dot1q
- B. switchport mode trunk
- C. switchport trunk allowed vlan 20
- D. switchport trunk native vlan 20

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

What 8-bit field exists in IP packet for QoS?

- A. Tos Field
- B. DSCP
- C. IP Precedence
- D. Cos

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

What feature uses a random time to re-send a frame?

- A. CSMA/CA
- B. CSMA/CD

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

Which mode is compatible with Trunk, Access, and desirable ports?

- A. Trunk Ports
- B. Access Ports
- C. Dynamic Auto
- D. Dynamic Desirable

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

If you configure syslog messages without specifying the logging trap level, which log messages will the router send?

- A. 0-4
- B. 0-5
- C. 0-6
- D. 0-2
- E. 0-1

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

Which command can you execute to set the user inactivity timer to 10 seconds?

- A. SW1(config-line)#exec-timeout 0 10
- B. SW1(config-line)#exec-timeout 10
- C. SW1(config-line)#absolute-timeout 0 10
- D. SW1(config-line)#absolute-timeout 10

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

Which standards-based First Hop Redundancy Protocol is a Cisco supported alternative to Hot Standby Router Protocol?

- A. VRRP
- B. GLBP
- C. TFTP
- D. DHCP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

Two hosts are attached to a switch with the default configuration.

Which statement about the configuration is true?

- A. IP routing must be enabled to allow the two hosts to communicate.
- B. The two hosts are in the same broadcast domain.
- C. The switch must be configured with a VLAN to allow the two hosts to communicate.
- D. Port security prevents the hosts from connecting to the switch.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68

If a router has 3 hosts connected in one port and two other hosts connected in another port, how may

broadcast domains are present on the router?

- A. 5
- B. 2
- C. 3
- D. 4

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69

What are three parts of an IPv6 global unicast address? (Choose three.)

- A. an interface ID that is used to identify the local host on the network
- B. an interface ID that is used to identify the local network for a particular host.
- C. a subnet ID that is used to identify networks inside of the local enterprise site
- D. a global routing prefix that is used to identify the network portion of the address that has been provided by an ISP
- E. a global routing prefix that is used to identify the portion of the network address provided by a local administrator

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

You have been asked to come up with a subnet mask that will allow all three web servers to be on the same network while providing the max number of subnets. Which network address and subnet mask meet this requirement?

- A. 192.168.252.8 255.255.255.248
- B. 192.168.252.8 255.255.255.252
- C. 192.168.252.16 255.255.255.240
- D. 192.168.252.0 255.255.255.252
- E. 192.168.252.16 255.255.255.252

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

What parameter can be different on ports within an EtherChannel?

- A. speed
- B. DTP negotiation settings

- C. trunk encapsulation
- D. duplex

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

Which two statements about IPv6 router advertisement messages are true? (Choose two.)

- A. They use ICMPv6 type 134.
- B. The advertised prefix length must be 64 bits.
- C. The advertised prefix length must be 48 bits.
- D. They are sourced from the configured IPv6 interface address.
- E. Their destination is always the link-local address of the neighboring node.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

Which spanning-tree protocol rides on top of another spanning-tree protocol?

- A. MSTP
- B. RSTP
- C. PVST+
- D. Mono Spanning Tree

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

A network administrator needs to configure port security on a switch.

Which two statements are true? (Choose two)

- A. The network administrator can apply port security to dynamic access ports
- B. The network administrator can configure static secure or sticky secure mac addresses in the voice vlan.
- C. The sticky learning feature allows the addition of dynamically learned addresses to the running configuration.
- D. The network administrator can apply port security to EtherChannels.
- E. When dynamic mac address learning is enabled on an interface, the switch can learn new addresses, up to the maximum defined.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

Which switching method duplicates the first six bytes of a frame before making a switching decision?

- A. fragment-free switching
- B. store and-forward switching
- C. cut through switching
- D. ASIC switching

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Cut and Through method has lowest latency. In this method Switch only read first six bytes from frame after the preamble. These six bytes are the destination address of frame. This is the fastest method of switching. This method also processes invalid frames. Only advantage of this method is speed.

QUESTION 76

Which logging command can enable administrators to correlate syslog messages with millisecond precision?

- A. no logging console
- B. logging buffered 4
- C. no logging monitor
- D. service timestamps log datetime msec
- E. logging host 10.2.0.21

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

Which three statements about link-state routing are true? (Choose three.)

- A. Routes are updated when a change in topology occurs.
- B. Updates are sent to a multicast address by default.
- C. OSPF is a link-state protocol.
- D. Updates are sent to a broadcast address.
- E. RIP is a link-state protocol
- F. It uses split horizon.

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

Which command can you enter to determine whether a switch is operating in trunking mode?

- A. show ip interface brief
- B. show vlan
- C. show interfaces
- D. show interface switchport

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

Which command can you enter to view the ports that are assigned to VLAN 20?

- A. Switch#show vlan id 20
- B. Switch#show ip interface brief
- C. Switch#show interface vlan 20
- D. Switch#show ip interface vlan 20

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

In which two formats can the IPv6 address fd15:0db8:0000:0000:0700:0003:400F:572B be written? (Choose two.)

- A. fd15:0db8:0000:0000:700:3:400F:527B
- B. d15::db8::700:3:400F:527B
- C. fd15:db8:0::700:3:4F:527B
- D. fd15:0db8::7:3:4F:527B
- E. fd15:db8::700:3:400F:572B

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

Which function of the IP SLAs ICMP jitter operation can you use to determine whether a VoIP issue is caused by excessive end-to-end time?

- A. packet loss
- B. jitter
- C. successive packet loss

- D. round-trip time latency

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

Refer to the exhibit.

```
00:00:39: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to down
00:00:40: %SPANTREE-5-EXTENDED_SYSID: Extended SysId enabled for type vlan
00:00:42: %SYS-5-CONFIG_I: Configured from memory by console
00:00:42: %SYS-5-RESTART: System restarted --
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 12.2(25)SEE2, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Fri 28-Jul-06 11:57 by yenanh
00:00:44: %LINK-5-CHANGED: Interface Vlan1, changed state to administratively down
00:00:44: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
00:00:44: %LINK-3-UPDOWN: Interface FastEthernet0/2, changed state to up
00:00:44: %LINK-3-UPDOWN: Interface FastEthernet0/11, changed state to up
00:00:45: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
00:00:45: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
00:00:45: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/11, changed state to up
00:00:48: %LINK-3-UPDOWN: Interface FastEthernet0/12, changed state to up
00:00:49: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/12, changed state to up
```

Which of these statements correctly describes the state of the switch once the boot process has been completed?

- A. As FastEthernet0/12 will be the last to come up, it will not be blocked by STP.
- B. Remote access management of this switch will not be possible without configuration change.
- C. More VLANs will need to be created for this switch.
- D. The switch will need a different IOS code in order to support VLANs and STP.

Correct Answer: B

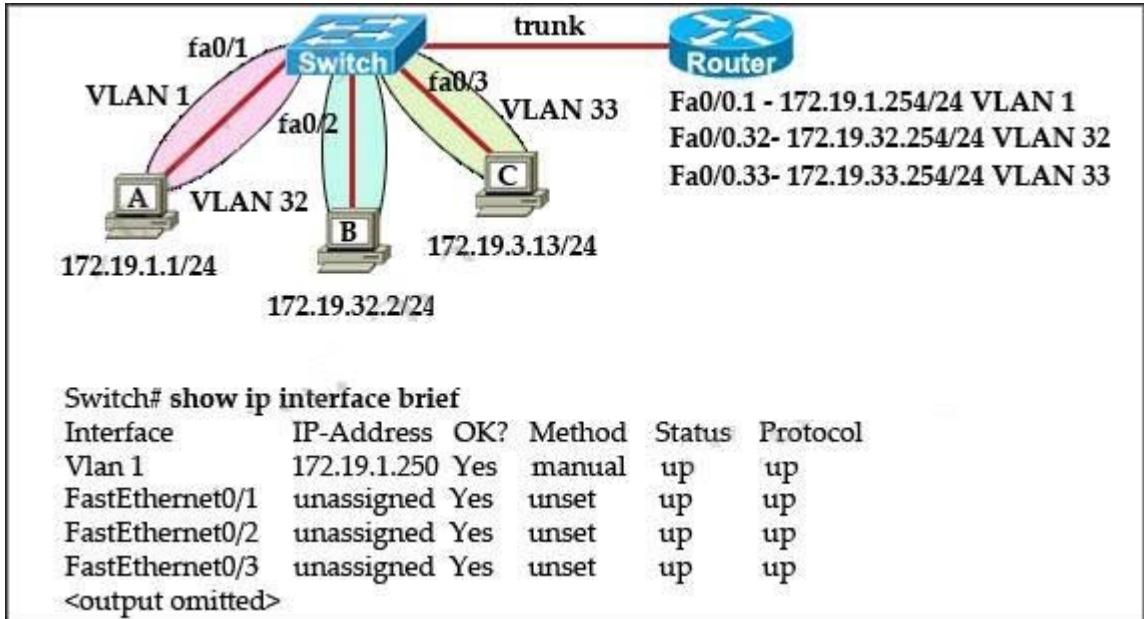
Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

Refer to the exhibit.



The network administrator normally establishes a telnet session with the switch from host A. However, host A is unavailable. The administrators attempt to the switch from host B fails, but pings to the other two hosts are successful.

What is the issue?

- A. Host B and the switch need to be in the same subnet.
- B. The switch needs and appropriate default gateway assigned.
- C. The switch interface connected to the router is down.
- D. Host B need to be assigned an IP address in vlan 1.
- E. The switch interfaces need the appropriate IP addresses assigned.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

Which condition does the err-disabled status indicate on an Ethernet interface?

- A. There is a duplex mismatch.
- B. The device at the other end of the connection is powered off.
- C. The serial interface is disabled.
- D. The interface is configured with the shutdown command.
- E. Port security has disabled the interface.
- F. The interface is fully functioning.

Correct Answer: E

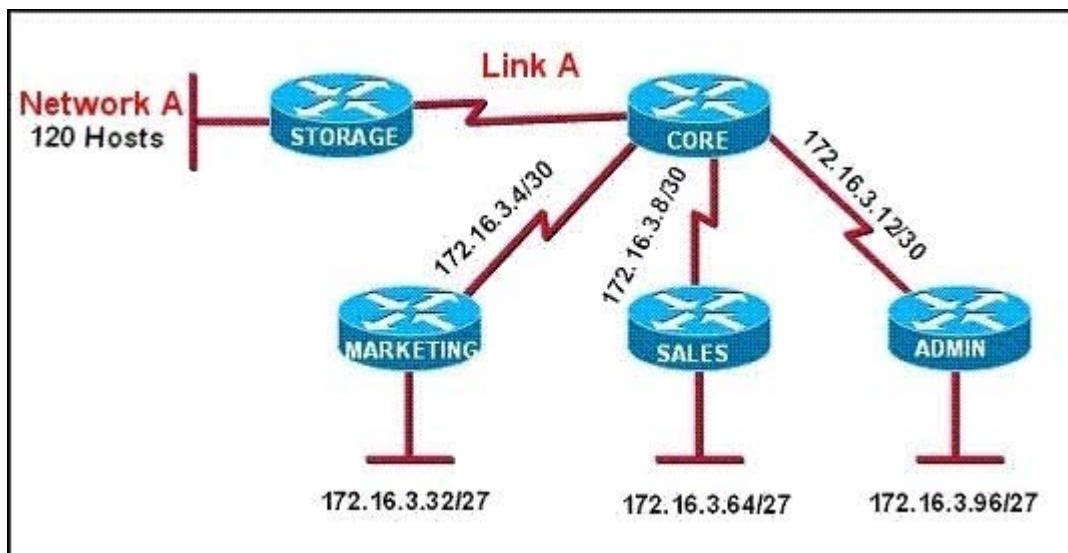
Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

Refer to the exhibit.



All of the routers in the network are configured with the ip subnet-zero command. Which network addresses should be used for Link A and Network A? (Choose two.)

- A. Network A - 172.16.3.48/26
- B. Network A - 172.16.3.128/25
- C. Network A - 172.16.3.192/26
- D. Link A - 172.16.3.0/30
- E. Link A - 172.16.3.40/30
- F. Link A - 172.16.3.112/30

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

Which type of device can be replaced by the use of subinterfaces for VLAN routing?

- A. Layer 2 bridge
- B. Layer 2 switch
- C. Layer 3 switch
- D. router

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 87

Which statement about LLDP is true?

- A. It is a Cisco proprietary protocol
- B. It is configured in global configuration mode.
- C. The LLDP update frequency is a fixed value.
- D. It runs over the transport layer.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

If the primary root bridge experiences a power loss, which switch takes over?

- A. switch 0040.00.90C5
- B. switch 00E0.F90B.6BE3
- C. switch 0004.9A1A.C182
- D. switch 00E0.F726.3DC6

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 89

A network administrator is troubleshooting an EIGRP problem on a router and needs to confirm the IP addresses of the devices with which the router has established adjacency. The retransmit interval and the queue counts for the adjacent routers also need to be checked.

What command will display the required information?

- A. Router# show ip eigrp neighbors
- B. Router# show ip eigrp interfaces
- C. Router# show ip eigrp adjacency
- D. Router# show ip eigrp topology

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

Which three statements about IPv6 prefixes are true? (Choose three.)

- A. FEC0::/10 is used for IPv6 broadcast.
- B. FC00::/7 is used in private networks.
- C. FE80::/8 is used for link-local unicast.
- D. FE80::/10 is used for link-local unicast.

- E. 2001::1/127 is used for loopback addresses.
- F. FF00::/8 is used for IPv6 multicast.

Correct Answer: BDF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 91

Which command can you enter to display duplicate IP addresses that the DHCP server assigns?

- A. show ip dhcp conflict 10.0.2.12
- B. show ip dhcp database 10.0.2.12
- C. show ip dhcp server statistics
- D. show ip dhcp binding 10.0.2.12

Correct Answer: A

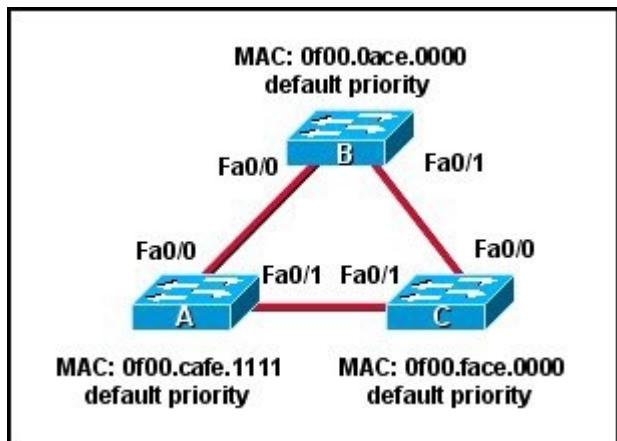
Section: (none)

Explanation

Explanation/Reference:

QUESTION 92

Refer to the topology shown in the exhibit.



Which ports will be STP designated ports if all the links are operating at the same bandwidth? (Choose three.)

- A. Switch A - Fa0/0
- B. Switch A - Fa0/1
- C. Switch B - Fa0/0
- D. Switch B - Fa0/1
- E. Switch C - Fa0/0
- F. Switch C - Fa0/1

Correct Answer: BCD

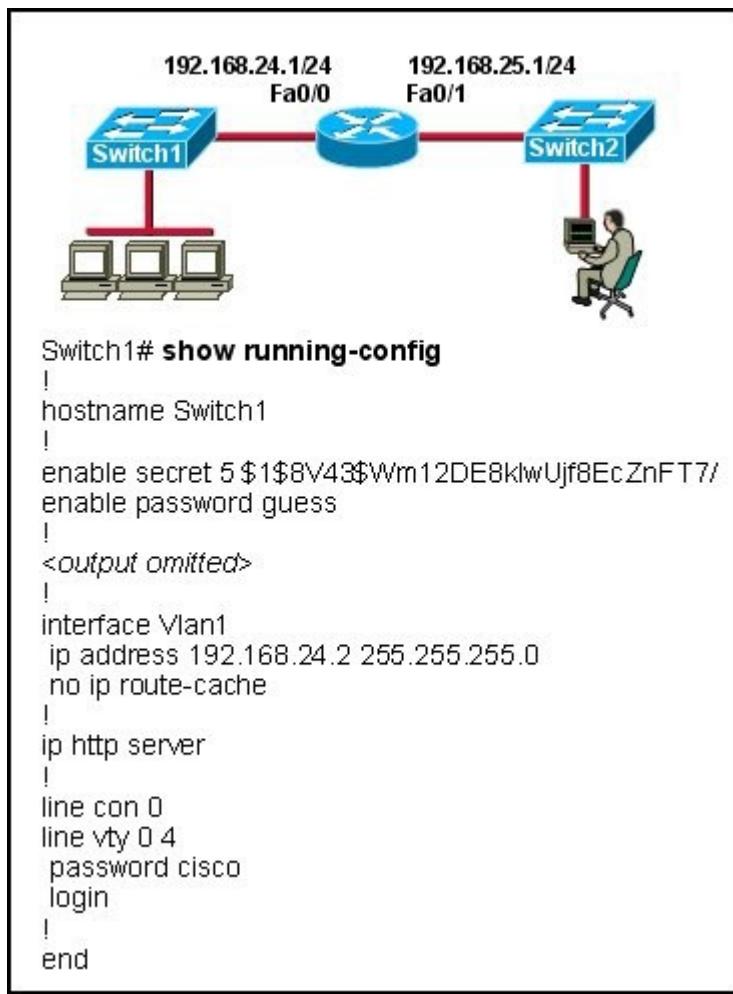
Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

The network administrator cannot telnet to switch 1 over a telnet session, although the hosts attached to switch 1 can ping the interface Fa0/0 of the router.



Given the information in the graphic and assuming that the router and switch2 are configured properly, which of the following commands should be issued on switch 1 to correct this problem?

- A. Switch1(config)# interface fa0 /1
Switch1(config-if)# ip address 192.168.24.3.255.255.255.0
- B. Switch1 (config)# interface fa0/1
Switch1 (config-if)# switchport mode trunk
- C. Switch 1 (config)# interface fa0 /1
Switch1 (config-if)# duplex full
Switch1 (config-if)# speed 100
- D. Switch1 (config-if)# default-gateway 192.168.24.1
- E. Switch1 (config)# line con 0
Switch1(config-line)# password cisco
Switch1 (config-line)#login

Correct Answer: D

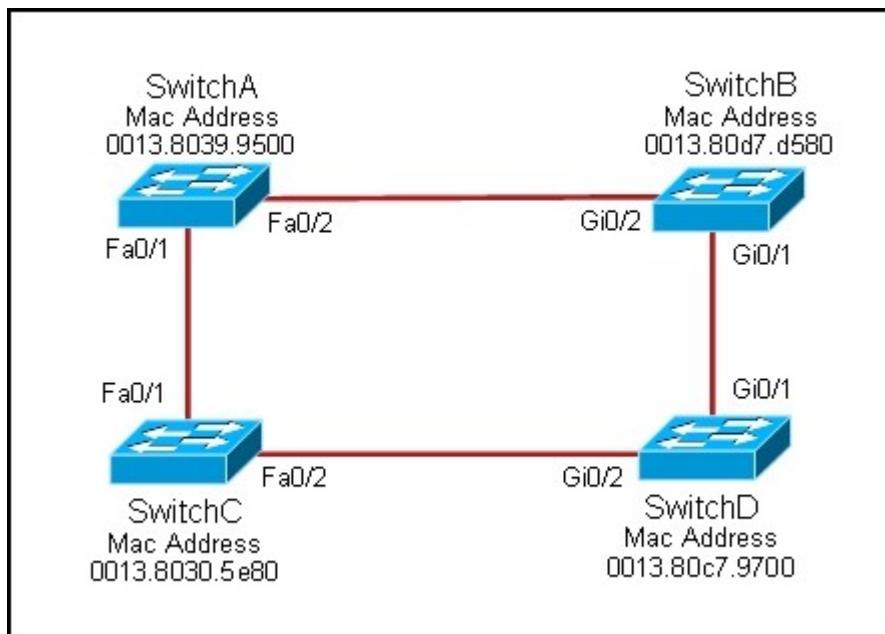
Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

Refer to the exhibit.



Each of these four switches has been configured with a hostname, as well as being configured to run RSTP. No other configuration changes have been made.

Which three of these show the correct RSTP port roles for the indicated switches and interfaces? (Choose three.)

- A. SwitchA, Fa0/2, designated
- B. SwitchA, Fa0/1, root
- C. SwitchB, Gi0/2, root
- D. SwitchB, Gi0/1, designated
- E. SwitchC, Fa0/2, root
- F. SwitchD, Gi0/2, root

Correct Answer: ABF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

Which feature builds a FIB and an adjacency table to expedite packet forwarding?

- A. cut through

- B. fast switching
- C. process switching
- D. Cisco Express Forwarding

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 96

Which command can you enter to verify that a 128-bit address is live and responding?

- A. traceroute
- B. telnet
- C. ping
- D. show ipv6

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 97

What are two reasons that duplex mismatches can be difficult to diagnose? (Choose two.)

- A. The interface displays a connected (up/up) state even when the duplex settings are mismatched.
- B. 1-Gbps interfaces are full-duplex by default.
- C. Full-duplex interfaces use CSMA/CD logic, so mismatches may be disguised by collisions.
- D. The symptoms of a duplex mismatch may be intermittent.
- E. Autonegotiation is disabled.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 98

Which condition indicates that service password-encryption is enabled?

- A. The local username password is in clear text in the configuration.
- B. The enable secret is in clear text in the configuration
- C. The local username password is encrypted in the configuration.
- D. The enable secret is encrypted in the configuration.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 99

Which protocol advertises a virtual IP address to facilitate transparent failover of a Cisco routing device?

- A. FHRP
- B. DHCP
- C. RSMLT
- D. ESRP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 100

What is the correct routing match to reach 172.16.1.5/32?

- A. 172.16.1.0/26
- B. 172.16.1.0/25
- C. 172.16.1.0/24
- D. the default route

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 101

Which layer in the OSI reference model is responsible for determining the availability of the receiving program and checking to see if enough resources exist for that communication?

- A. transport
- B. network
- C. presentation
- D. session
- E. application

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 102

What is the purpose of the POST operation on a router?

- A. determine whether additional hardware has been added
- B. locate an IOS image for booting
- C. enable a TFTP server

- D. set the configuration register

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 103

Which protocol is the Cisco proprietary implementation of FHRP?

- A. HSRP
- B. VRRP
- C. GLBP
- D. CARP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 104

Which characteristics are representative of a link-state routing protocol? (Choose three.)

- A. provides common view of entire topology
- B. exchanges routing tables with neighbors
- C. calculates shortest path
- D. utilizes event-triggered updates
- E. utilizes frequent periodic updates

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 105

Which part of the PPPoE server configuration contains the information used to assign an IP address to a PPPoE client?

- A. virtual-template interface
- B. DHCP
- C. dialer interface
- D. AAA authentication

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 106

Which three statements about RSTP are true?(choose three)

- A. RSTP significantly reduces topology reconverging time after a link failure.
- B. RSTP expends the STP port roles by adding the alternate and backup roles.
- C. RSTP port atates are blocking, discarding, learing, or forwarding.
- D. RSTP also uses the STP proprsal-agreement sequence.
- E. RSTP use the same timer-basseed process as STP on point-to-point links.
- F. RSTP provides a faster transition to the forwarding state on point-to-point links than STP does.

Correct Answer: ABF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 107

What are two benefits of using NAT?(choose two)

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

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 108

Which two commands correctly verify whether port security has been configured on port FastEthernet 0/12 on a switch?(choose two)

- A. SW1#show swithport port-security interface FastEthernet 0/12
- B. SW1# show swithport port-secure interface FastEthernet 0/12
- C. SW1# show port-secure interface FastEthernet 0/12
- D. SW1#show running-config
- E. SW1#show port-security interface FastEthernet 0/12

Correct Answer: DE

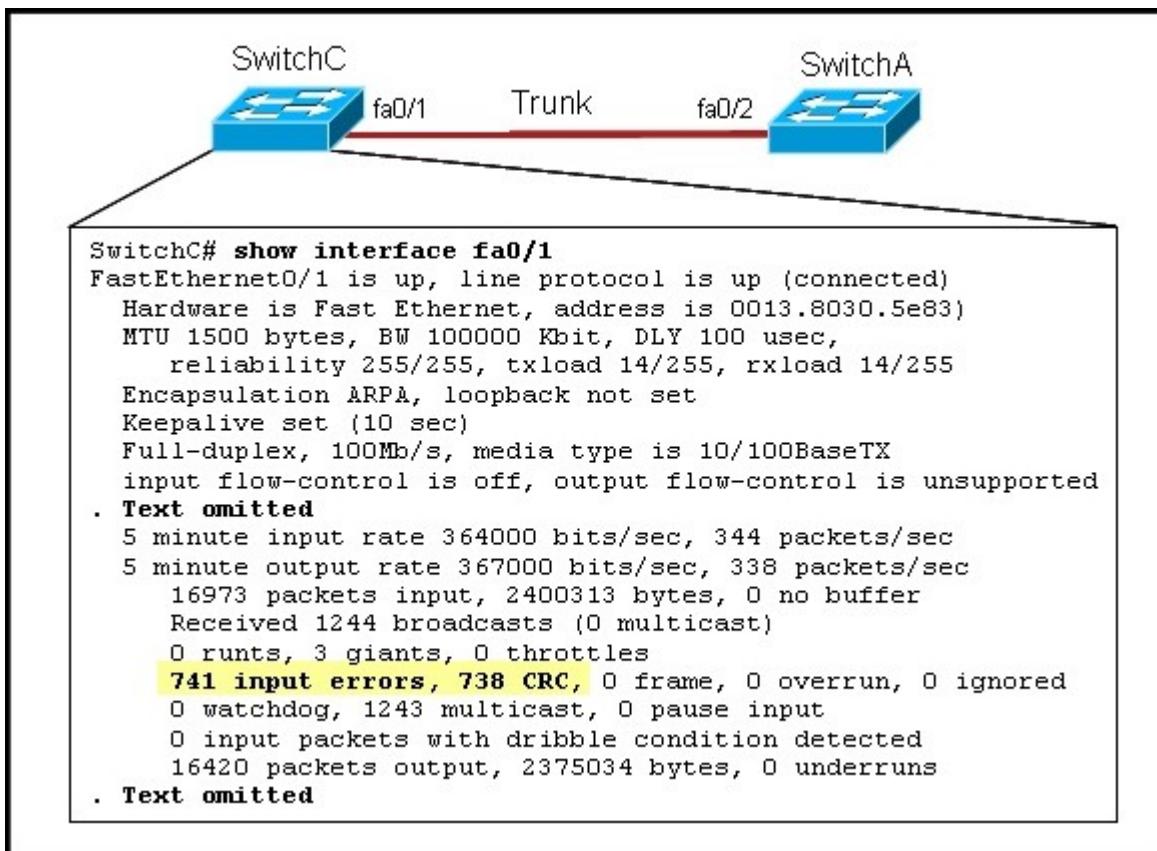
Section: (none)

Explanation

Explanation/Reference:

QUESTION 109

Refer to the exhibit.



Given this output for SwitchC, what should the network administrator's next action be?

- A. Check the trunk encapsulation mode for SwitchC's fa0/1 port.
- B. Check the duplex mode for SwitchC's fa0/1 port.
- C. Check the duplex mode for SwitchA's fa0/2 port.
- D. Check the trunk encapsulation mode for SwitchA's fa0/2 port.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 110

Which statement is correct regarding the operation of DHCP?

- A. A DHCP client uses a ping to detect address conflicts.
- B. A DHCP server uses a gratuitous ARP to detect DHCP clients.
- C. A DHCP client uses a gratuitous ARP to detect a DHCP server.
- D. If an address conflict is detected, the address is removed from the pool and an administrator must resolve the conflict.
- E. If an address conflict is detected, the address removed from the pool for an amount of time configurable by the administrator.
- F. If an address conflict is detected, the address is removed from the pool and will not be reused until server is rebooted.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 111

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

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 112

Refer to the exhibit.

```
ALSwitch1# show running-config
<output omitted>
interface FastEthernet0/24 no ip address
<output omitted>
ALSwitch1# show interfaces FastEthernet0/24 switchport
Name: Fa0/24
Switchport: Enable
Administrative Mode: static access
Operation Mode: static access
Administrative Trunking Encapsulation: dot1q
Operation Trunking Encapsulation: native
Negotiation of Trunking: Off
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Operation private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL

Protected: false

Voice VLAN: none (Inactive)
Appliance trust: none
```

Switch port FastEthernet 0/24 on ALSwitch1 will be used to create an IEEE 802.1Qcomplaint trunk to another switch.

Based on the output shown, what is the reason the trunk does not form, even thought the proper cabling has been attached?

- A. VLANs have not been created yet.
- B. An IP address must be configured for the port.
- C. The port is currently configured for access mode.
- D. The correct encapsulation type has not been configured.
- E. The no shutdown command has not been entered for the port.

Correct Answer: C

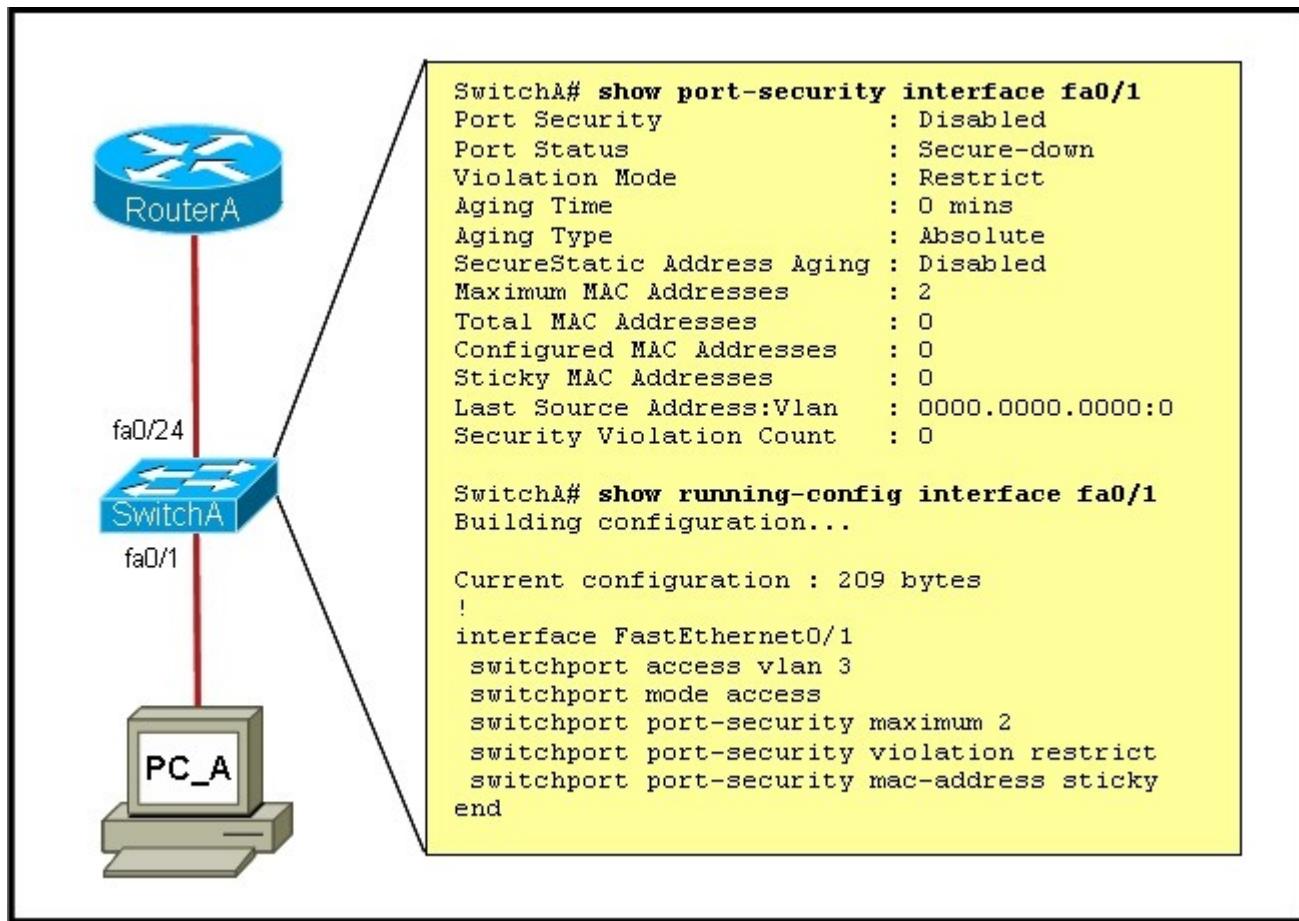
Section: (none)

Explanation

Explanation/Reference:

QUESTION 113

Refer to the exhibit.



A junior network administrator was given the task of configuring port security on SwitchA to allow only PC_A to access the switched network through port fa0/1. If any other device is detected, the port is to drop frames from this device. The administrator configured the interface and tested it with successful pings from PC_A to RouterA, and then observes the output from these two show commands. Which two of these changes are necessary for SwitchA to meet the requirements? (Choose two.)

- A. Port security needs to be globally enabled.
- B. Port security needs to be enabled on the interface.
- C. Port security needs to be configured to shut down the interface in the event of a violation.
- D. Port security needs to be configured to allow only one learned MAC address.
- E. Port security interface counters need to be cleared before using the show command.
- F. The port security configuration needs to be saved to NVRAM before it can become active.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 114

Which three statements about static routing are true? (Choose three.)

- A. It uses consistent route determination
- B. It is best used for small-scale deployments.

- C. Routing is disrupted when links fail.
- D. It requires more resources than other routing methods.
- E. It is best used for large-scale deployments.
- F. Routers can use update messages to reroute when links fail.

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 115

What are the address that will show at the show ip route if we configure the above statements? (Choose Three.)

```
router eigrp 100
network 172.15.4.0
network 10.4.3.0
network 192.16.4.0
auto summary
```

- A. 10.0.0.0
- B. 10.4.3.0
- C. 172.15.4.0
- D. 172.15.0.0
- E. 192.168.4.0
- F. 192.168.0.0

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 116

Which feature facilitate the tagging of a specific VLAN?

- A. Routing
- B. Hairpinning
- C. Encapsulation
- D. Switching

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 117

What does split horizon prevent?

- A. routing loops, link state
- B. routing loops, distance vector

- C. switching loops, STP
- D. switching loops, VTP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 118

Which value to use in HSRP protocol election process ?

- A. interface
- B. virtual IP address
- C. priority
- D. router ID

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 119

Which of the following is needed to be enable back the role of active in HSRP?

- A. preempt
- B. priority

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 120

Which command is used to show the interface status of a router?

- A. show interface status
- B. show ip interface brief
- C. show ip route
- D. show interface

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 121

Which of the following privilege level is the most secured?

- A. Level 0
- B. Level 1
- C. Level 15
- D. Level 16

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 122

Which IPV6 feature is supported in IPV4 but is not commonly used?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 123

Which two statements are true about IPv6 Unique Local Addresses? (Choose Two.)

- A. It is the counterpart of IPv4 private addresses
- B. It uses FC00:: /7 as prefix
- C. They are defined by RFC 1884
- D. They use the prefix FEC0::/10
- E. They can be routed on the IPv6 global internet.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 124

Which range represents the standard access list?

- A. 99
- B. 150
- C. 299
- D. 2000

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 125

What to do when the router password was forgotten?

- A. use default password cisco to reset
- B. access router physically
- C. use ssl/vpn
- D. Type confreg 0x2142 at the rommon 1

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 126

What is true about Cisco Discovery Protocol?

- A. it discovers the routers, switches and gateways.
- B. it is network layer protocol
- C. it is physical and data link layer protocol
- D. it is proprietary protocol

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 127

Which of the following encrypts the traffic on a leased line?

- A. telnet
- B. ssh
- C. vtp
- D. vpn
- E. dmvpn

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 128

How do you configure a hostname?

- A. Router(config)#hostname R1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 129

How do you maintain security in multiple websites?

- A. Point-to-point
- B. DMVPN
- C. vpn

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 130

Refer to the exhibit.

```
Switch-1# show mac address-table
Dynamic Addresses Count:          3
Secure Addresses (User-defined) Count: 0
Static Addresses (User-defined) Count: 0
System Self Addresses Count:      41
Total Mac addresses:             50
Non-static Address Table:
Destination Address  Address Type VLAN Destination Port
-----  -----
0010.0de0.e289    Dynamic     1   FastEthernet0/1
0010.7b00.1540    Dynamic     2   FastEthernet0/3
0010.7b00.1545    Dynamic     2   FastEthernet0/2
```

Switch-1 needs to send data to a host with a MAC address of 00b0.d056.efa4.

What will Switch-1 do with this data?

- A. switch-1 will drop the data because it dose not have an entry for that MAC address
- B. switch-1 will flood the data out all of its port from which the data originated
- C. switch-1 will forward the data to its default gateway
- D. switch-1 will send an ARP request out all its ports except the port from which the data originated

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 131

```
interface fa0/0
ip address x.x.x.33 255.255.255.224
router bgp XXX
neighbor x.x.x.x remote as x.x.x.x
You need to advertise the network of Int fa0/0.
```

- A. x.x.x.32 mask 255.255.255.224
- B. x.x.x.32 255.255.255.224
- C. x.x.x.32 mask 0.0.0.31
- D. x.x.x.33 mask 255.255.255.224

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 132**

What routing protocol use first-hand information?

- A. link-state
- B. distance-vector
- C. path-vector

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 133**

Refer to the exhibit.

```
R1
interface Loopback0
  ip address 172.16.1.1 255.155.255.255
interface FastEthernet0/0
  ip address 192.168.12.1 255.255.255.0
interface FastEthernet0/1
  ip address 192.168.10.1 255.255.255.0
router ospf 1
  router-id 172.16.1.1
  network 172.16.1.1 0.0.0.0 area 0
  network 192.168.10.0 0.0.0.255 area 0
```

You have discovered that computers on the 192.168.10.0/24 network can ping their default gateway, but they cannot connect to any resources on a remote network.

Which reason for the problem is most likely true?

- A. The 192.168.12.0/24 network is missing from OSPF.

- B. The OSPF process ID is incorrect
- C. The OSPF area number is incorrect.
- D. An ARP table entry is missing for 192.168.10.0.
- E. A VLAN number is incorrect for 192.168.10.0.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 134

What field is consist of 6 bytes in the field identification frame in IEEE 802.1Q?

- A. SA
- B. DA
- C. FCS

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 135

What is new in HSRPv2?

- A. preempt
- B. a greater number in hsrp group field

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 136

Which two statements about MPLS are true? (Choose two)

- A. It provides automatic authentication
- B. It can carry multiple protocols, including IPv4 and IPv6
- C. It encapsulates all traffic in an IPv4 header
- D. It uses labels to separate and foward customer traffic
- E. It tags customer traffic using 802.1q

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 137

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 138

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 139

What should be part of a comprehensive network security plan?

- A. Allow users to develop their own approach to network security.
- B. Physically secure network equipment from potential access by unauthorized individuals
- C. Encourage users to use personal information in their passwords to minimize the likelihood of passwords being forgotten.
- D. Delay deployment of software patches and updates until their effect on end-user equipment is well known and widely reported
- E. Minimize network overhead by deactivating automatic antivirus client updates.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 140

Which two Cisco IOS commands, used in troubleshooting, can enable debug output to a remote location?
(Choose two)

- A. no logging console
- B. logging host ip-address
- C. terminal monitor
- D. show logging | redirect flash:output.txt
- E. snmp-server enable traps syslog

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 141

Which component of the Cisco SDN solution serves as the centralized management system?

- A. Cisco OpenDaylight
- B. Cisco ACI
- C. Cisco APIC
- D. Cisco IWAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 142

Which command is used to build DHCP pool?

- A. ip dhcp pool DHCP
- B. ip dhcp conflict
- C. ip dhcp-server pool DHCP
- D. ip dhcp-client pool DHCP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 143

Which utility can you use to determine whether a switch can send echo requests and replies?

- A. ping
- B. traceroute
- C. ssh
- D. telnet

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 144

What is the two benefits of DHCP snooping? (Choose two.)

- A. prevent static reservation
- B. prevent reservation
- C. prevent DHCP rogue server
- D. track users hosts on the network.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 145

What are the three major components of cisco network virtualization? (Choose Three.)

- A. network access control
- B. path isolation
- C. virtual network services
- D. policy enforcement

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 146

Which feature is config by setting a variance that is at least 2 times the metric?

- A. unequal cost load balancing
- B. path selection
- C. equal cost load balancing
- D. path count

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 147

Standard industrialized protocol of etherchannel?

- A. LACP
- B. PAGP
- C. PRP

D. REP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 148

Two features of the extended ping command? (Choose two.)

- A. It can send a specific number of packet
- B. It can send packet from specified interface or IP address
- C. It can resolve the destination host name
- D. It can ping multiple host at the same time

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 149

What command is used to configure a switch as authoritative NTP server ?

- A. switch(config)#ntp master 3
- B. switch(config)#ntp peer 193.168.2.2
- C. switch(config)#ntp server 193.168.2.2
- D. switch(config)#ntp source 193.168.2.2

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 150

Which two statements about syslog logging are true?(Choose two.)

- A. Syslog logging is disabled by default
- B. Messages are stored in the internal memory of device
- C. Messages can be erased when device reboots
- D. Messages are stored external to the device
- E. The size of the log file is dependent on the resources of the device

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 151

How to enable vlans automatically across multiple switches?

- A. Configure VLAN
- B. Configure NTP
- C. Configure each VLAN
- D. Configure VTP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 152

Which password types are encrypted?

- A. SSH
- B. Telnet
- C. enable secret
- D. enable password

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 153

What is the benefit of point-to-point leased line?

- A. Low cost
- B. Full-mesh capability
- C. Flexibility of design
- D. Simple configuration

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 154

What is the binary pattern of unique ipv6 unique local address?

- A. 00000000
- B. 11111100
- C. 11111111
- D. 11111101

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 155

Which statement about ACLs is true?

- A. An ACL must have at least one permit action, else it just blocks all traffic.
- B. ACLs go bottom-up through the entries looking for a match
- C. An ACL has an implicit permit at the end of ACL.
- D. ACLs will check the packet against all entries looking for a match.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 156

What is the cause of the Syslog output messages?

```
*Mar 01, 00:37:57.3737: %SYS-5-CONFIG_I: Configured from console by console
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administratively down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 10.10.11.2 (FastEthernet0/1) is down: interface down
```

- A. The EIGRP neighbor on Fa0/1 went down due to a failed link.
- B. The EIGRP neighbor connected to Fa0/1 is participating in a different EIGRP process, causing the adjacency to go down.
- C. A shut command was executed on interface Fa0/1, causing the EIGRP adjacency to go down.
- D. Interface Fa0/1 has become error disabled, causing the EIGRP adjacency to go down.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 157

What are contained in layer 2 ethernet frame? (Choose Three.)

- A. Preamble
- B. TTL
- C. Type/length
- D. Frame check sequence
- E. version

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 158

Describe the best way to troubleshoot and isolate a network problem?

- A. Create an action plan
- B. Implement an action plan
- C. Gather facts
- D. Change one variable at a time

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 159

Under normal operations, Cisco recommends that you configure switch ports on which VLAN?

- A. on the default VLAN
- B. on the management VLAN
- C. on the native VLAN
- D. on any VLAN except the default VLAN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 160

Which DTP switchport mode allows the port to create a trunk port if the port is in trunk, dynamic auto, and dynamic desirable mode?

- A. Dynamic Auto
- B. Dynamic Desirable
- C. Access
- D. Trunk

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 161

In which byte of an IP packet can traffic be marked?

- A. the QoS byte
- B. the CoS byte
- C. the ToS byte

- D. the DSCP byte

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 162

Which command can you enter to route all traffic that is destined for 192.168.0.0/20 to a specific interface?

- A. router(config)#ip route 192.168.0.0 255.255.240.0 GigabitEthernet0/1
- B. router(config)#ip route 0.0.0.0 255.255.255.0 GigabitEthernet0/1
- C. router(config)#ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/1
- D. router(config)#ip route 192.168.0.0 255.255.255.0 GigabitEthernet0/1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 163

Which two protocol can detect native vlan mismatch errors? (Choose two.)

- A. CDP
- B. VTP
- C. DTP
- D. STP
- E. PAGP

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 164

Which three options are switchport config that can always avoid duplex mismatch error between the switches? (Choose Three.)

- A. set both side on auto-negotiation
- B. set both sides on half-duplex
- C. set one side auto and other side half-duplex
- D. set both side of connection to full-duplex
- E. set one side auto and other side on full-duplex
- F. set one side full-duplex and other side half-duplex

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 165

What are two benefits of Private IPv4 Addresses? (Choose two.)

- A. they can be implemented without requiring admin to coordinate with IANA
- B. they are managed by IANA
- C. increase the flexibility of network design
- D. provide network isolation from the internet
- E. they are routable over internet

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 166

How many bits represent network id in a IPv6 address?

- A. 32
- B. 48
- C. 64
- D. 128

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 167

Which WAN topology is most appropriate for a centrally located server farm with several satellite branches?

- A. star
- B. hub and spoke
- C. point-to-point
- D. full mesh

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 168

Which function allows EIGRP peers to receive notice of implementing topology changes?

- A. successors
- B. advertised changes
- C. goodbye messages

- D. expiration of the hold timer

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 169

If you configure syslog messages without specifying the logging trap level, which log messages will the router send?

- A. informational messages only
- B. warning and error conditions only
- C. normal but significant conditions only
- D. error conditions only
- E. all levels except debugging

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 170

Which three options are benefits of using TACACS+ on a device? (Choose three)

- A. It ensures that user activity is untraceable
- B. It provides a secure accounting facility on the device.
- C. device-administration packets are encrypted in their entirely.
- D. It allows the user to remotely access devices from other vendors.
- E. It allows the users to be authenticated against a remote server.
- F. It supports access-level authorization for commands.

Correct Answer: CEF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 171

What layer of the OSI Model is included in TCP/IP Model's INTERNET layer?

- A. Application
- B. Session
- C. Data Link
- D. Presentation
- E. Network

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 172

Which two of these are characteristics of the 802.1Q protocol?(choose two)

- A. it is a layer 2 messaging protocol which maintains vlan configurations across network.
- B. it includes an 8-bit field which specifies the priority of a frame.
- C. it is used exclusively for tagging vlan frames and dose not address network reconvergence following switched network topology changes.
- D. it modifies the 802.3 frame header, and thus requires that the FCS be recomputed.
- E. it is a trunking protocol capable of carrying untagged frames.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 173

Which two features can dynamically assign IPv6 addresses? (Choose two.)

- A. IPv6 stateless autoconfiguration
- B. DHCP
- C. NHRP
- D. IPv6 stateful autoconfiguration
- E. ISATAP tunneling

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 174

A security administrator wants to profile endpoints and gain visibility into attempted authentications.

Which 802.1x mode allows these actions?

- A. Monitor mode
- B. High-Security mode
- C. Low-impact mode
- D. Closed mode

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 175

How to verify SSH connections was secured?

- A. ssh -v 1 -l admin IP
- B. ssh -v 2 -l admin IP
- C. ssh -l admin IP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 176

How many usable host are there per subnet if you have the address of 192.168.10.0 with a subnet mask of 255.255.255.240?

- A. 4
- B. 8
- C. 16
- D. 14

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 177

What interconnection cable can you use when you use a MDI connection?

- A. cut-through
- B. straight-through
- C. crossover
- D. rollover

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 178

Which command is used to know the duplex speed of serial link?

- A. show line
- B. show interface
- C. show protocol
- D. show run

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 179

Which three statements about HSRP operation are true? (Choose three.)

- A. The virtual IP address and virtual MA+K44C address are active on the HSRP Master router.
- B. The HSRP default timers are a 3 second hello interval and a 10 second dead interval.
- C. HSRP supports only clear-text authentication.
- D. The HSRP virtual IP address must be on a different subnet than the routers' interfaces on the same LAN.
- E. The HSRP virtual IP address must be the same as one of the router's interface addresses on the LAN.
- F. HSRP supports up to 255 groups per interface, enabling an administrative form of load balancing

Correct Answer: ABF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 180

Which two options describe benefits of aggregated chassis technology? (Choose two.)

- A. It requires only three IP addresses per VLAN.
- B. It supports HSRP, VRRP, and GLBP.
- C. It requires only one IP address per VLAN.
- D. It reduces management overhead.
- E. It supports redundant configuration files.
- F. Switches can be located anywhere regardless of their physical distance from one another.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 181

When troubleshooting client DNS issues, which two tasks must you perform? (Choose two)

- A. Ping a public website IP address.
- B. Ping the DNS Server.
- C. Determine whether a DHCP address has been assigned.
- D. Determine whether the hardware address is correct.
- E. Determine whether the name servers have been configured

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 182

Which utility can you use to identify the cause of a traffic-flow blockage between two devices in a network?

- A. The ACL analysis tool in Cisco APIC-EM
- B. The ACL trace tool in Cisco APIC-EM
- C. The Cisco APIC-EM automation scheduler.
- D. The Cisco IWAN application.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 183

What does traffic shaping do to reduce congestion in a network?

- A. buffers and queues packets
- B. buffers without queuing packets
- C. queuees without buffering packets
- D. drops packets

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 184

Which two statements about extended traceroute command are true?(choose two)

- A. it can send packets from a specified interface or ip address
- B. it can use a specified TTL value
- C. it can validate the reply data
- D. it can use a specified TOS
- E. it can repeat automatically to a specified interval

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 185

A BPDU guard is configured on an interface that has PortFast Enable. Which state does the interface enter when it receives a BPDU?

- A. Blocking
- B. Shutdown
- C. Listening
- D. Errdisable

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 186

Which statement about SNMPv2 is true ?

- A. Its privacy algorithms use MD5 encryption by default.
- B. it requires passwords to be encrypyed
- C. Its authentication and privacy algorithms are enable without default values.
- D. It requires passwords at least eight characters en length.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 187

which type of IP address of ipv6 that also exist in IPv4 but barely used?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 188

Which symptom most commonly indicates that two connecting interface are configured with a duplex mismatch?

- A. an interface with up/down state
- B. an interface with down/down state
- C. collisions on the interface
- D. the spanning tree process shutting down

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 189

How Eigrp for ipv6 configuration done? (Choose two)

- A. uses process number
- B. neighbor configured directly
- C. configured directly on interface
- D. configured globally interface
- E. have shutdown feature

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 190

Which VTP mode cannot make a change to vlan?

- A. Server
- B. Client
- C. Transparent
- D. Off

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 191

Which mode are in PAgP? (Choose two)

- A. Auto
- B. Desirable
- C. Active
- D. Passive
- E. On

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 192

In an Ethernet network, under what two scenarios can devices transmit? (Choose two.)

- A. when they receive a special token
- B. when there is a carrier
- C. when they detect no other devices are sending
- D. when the medium is idle
- E. when the server grants access

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 193

Which two protocols are used by bridges and/or switches to prevent loops in a layer 2 network? (Choose two.)

- A. 802.1d
- B. VTP
- C. 802.1q
- D. SAP
- E. STP

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 194

At which layer of the OSI model dose PPP perform?

- A. Layer 3
- B. Layer 4
- C. Layer 2
- D. Layer 5

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 195

Which are three reasons that an organization with multiple branch offices and roaming users might implement a Cisco VPN solution instead of point-to-point WAN links?(choose three)

- A. reduced cost
- B. better throughput
- C. increased security
- D. scalability
- E. reduced latency
- F. broadband incompatibility

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 196

Which IPv6 header field is equivalent to the TTL?

- A. Hop Limit
- B. Flow Label
- C. TTD
- D. Hop Count
- E. Scan Timer

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 197

which port security mode can assist with troubleshooting by keeping count of violations?

- A. access
- B. protect
- C. restrict
- D. shutdown

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 198

Which two options are requirements for configuring RIPv2 on the IPv4 network router? (Choose two)

- A. enabling RIP authentication
- B. connecting RIP to a WAN Interface
- C. enabling auto route summarization
- D. allowing unicast updates for RIP
- E. enabling RIP on the router

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 199

which configuration command can you apply to a hsrp router so that its local interface becomes active if all other routers in the group fail?

- A. no additional config is required
- B. standby 1 track ethernet

- C. standby 1 preempt
- D. standby 1 priority 250

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 200

Which statement about EIGRP on IPv6 device is true?

- A. It is configured directly on the interface
- B. The configuration uses secondary IP address
- C. The configuration uses process numbers
- D. The neighbors of each device are directly configured

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

<http://www.cisco.com/c/en/us/support/docs/ip/enhanced-interior-gateway-routing-protocol-eigrp/113267-eigrp-ipv6-00.html>

QUESTION 201

Which command can you enter to troubleshoot the failure of address assignment ?

- A. show ip dhcp database
- B. show ip dhcp pool
- C. show ip dhcp import
- D. show ip dhcp server statistics

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 202

Which three technical services support cloud computing ?

- A. network-monitored power sources
- B. layer 3 network routing
- C. ip localization
- D. redundant connections
- E. VPN connectivity
- F. extended SAN services

Correct Answer: DEF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 203

Which two steps must you perform to enable router-on-stick on a switch ?(choose two)

- A. connect the router to a trunk port
- B. config the subnet number exactly the same as the matching VLAN
- C. config full duplex
- D. configure an ip route to the vlan destn net
- E. assign the access port to the vlan

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 204

Which address prefix does OSPFv3 use when multiple IPv6 address are configured on a single interface ?

- A. all prefix on the interface
- B. the prefix that the administrator configures for OSPFv3 use
- C. the lowest prefix on the interface
- D. the highest prefix on the interface

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 205

Which IP configuration does the CIDR notation 192.168.1.1/25 refer?

- A. 192.168.1.1 255.255.255.64
- B. 192.168.1.1 255.255.255.1
- C. 192.168.1.1 255.255.255.32
- D. 192.168.1.1 255.255.255.128
- E. 192.168.1.1 255.255.255.256

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 206

Which option is the correct CIDR notation for 192.168.0.0 subnet 255.255.255.252 ?

- A. 30

- B. 31
- C. 32
- D. 33

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 207

Which two of these statements regarding RSTP are correct? (Choose two.)

- A. RSTP cannot operate with PVST+.
- B. RSTP defines new port roles.
- C. RSTP defines no new port states.
- D. RSTP is a proprietary implementation of IEEE 802.1D STP.
- E. RSTP is compatible with the original IEEE 802.1D STP.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 208

What is known as one-to-nearest addressing in IPv6?

- A. global unicast
- B. anycast
- C. multicast
- D. unspecified address

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 209

Which path does a router choose when it receives a packet with multiple possible paths to the destination over different routing protocols?

- A. the path with both the lowest administrative distance and the highest metric
- B. the path with the lowest administrative distance
- C. the path with the lowest metric
- D. the path with both the lowest administrative distance and lowest metric

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

<http://www.ciscopress.com/articles/article.asp?p=2180208&seqNum=9>

QUESTION 210

Requirement to configure DHCP binding (choose two)

- A. DHCP pool
- B. ip address
- C. Hardware address

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:**QUESTION 211**

How to see dhcp conflict?

- A. show ip dhcp pool
- B. show dhcp database
- C. show ip dhcp conflict

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 212**

Which Cisco platform can verify ACLs?

- A. Cisco Prime Infrastructure
- B. Cisco Wireless LAN Controller
- C. Cisco APIC-EM
- D. Cisco IOS-XE

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 213**

Which type of mac address is aged automatically by the switch?

- A. Dynamic
- B. Static
- C. automatic
- D. manual

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 214

Which major component of the network virtualization architecture isolate users according to policy?

- A. policy enforcement
- B. access control
- C. network services virtualization
- D. Path Isolation.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 215

Which two statements about firewalls are true ?

- A. They can be used with an intrusion prevention system
- B. They can limit unauthorized user access to protect data
- C. Each wireless access point requires its own firewall
- D. They must be placed only at locations where the private network connects to the internet
- E. They can prevent attacks from the internet only

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 216

Which two statements about data VLANs on access ports are true ? (Choose two)

- A. They can be configured as trunk ports
- B. Two or more VLANs can be configured on the interface
- C. 802.1Q encapsulation must be configured on the interface
- D. Exactly one VLAN can be configured on the interface.
- E. They can be configured as host ports.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 217

Where does the configuration reside when a helper address is configured to support DHCP ?

- A. on the switch trunk interface.
- B. on the router closest to the client.
- C. on the router closest to the server.
- D. on every router along the path.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 218

How does NAT overloading provide one-to-many address translation?

- A. It uses a pool of addresses
- B. It converts IPV4 addresses to unused IPv6 Addresses
- C. It assigns a unique TCP/UDP port to each session
- D. It uses virtual MAC Address and Virtual IP Addresses

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 219

Which three options are types of Layer 2 network attack ? (Choose three)

- A. Spoofing attacks
- B. Vlan Hopping
- C. botnet attacks
- D. DDOS attacks
- E. ARP Attacks
- F. Brute force attacks

Correct Answer: ABE

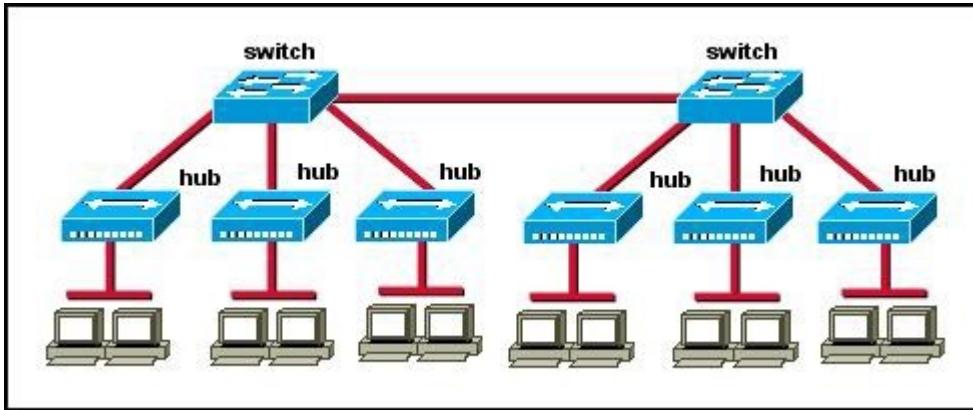
Section: (none)

Explanation

Explanation/Reference:

QUESTION 220

How many broadcast domains are shown in the graphic assuming only the default vlan is configured on the switches?



- A. one
- B. six
- C. twelve
- D. two

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 221

Afar you apply the given configuration to R1, you notice that it failed to enable OSPF Which action can you take to correct the problem?

```
R1
ipv6 cef

interface FastEthernet0/0
no ip address
ipv6 enable
  ipv6 address 2001:DB8:1::1/64
  ipv6 ospf 1 area 0

ipv6 router ospf 1
  router-id 172.16.1.1
```

- A. Configure a loopback interface on R1
- B. Enable IPv6 unicast routing on R1.
- C. Configure an IPv4 address on interface F0/0.
- D. Configure an autonomous system number on OSPF.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 222

What does split-horizon do?

- A. Prevent routing loop in distance vector protocol
- B. Prevent switching loop in distance vector protocol
- C. Prevent switching loop in link-state protocol
- D. Prevent routing loop in link-state protocol

Correct Answer: A

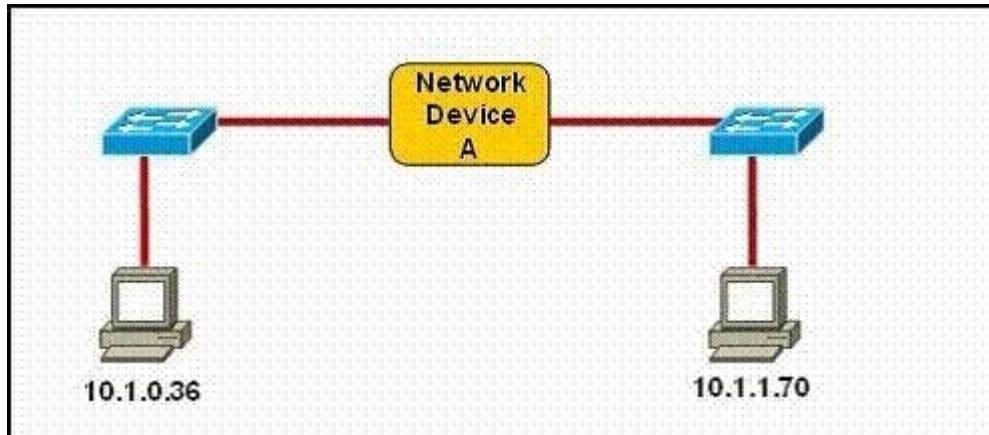
Section: (none)

Explanation

Explanation/Reference:

QUESTION 223

Refer to the exhibit.



Which three statements correctly describe Network Device A? (Choose three.)

- A. With a network wide mask of 255.255.255.128, each interface does not require an IP address.
- B. With a network wide mask of 255.255.255.128, each interface does require an IP address on a unique IP subnet.
- C. With a network wide mask of 255.255.255.0, must be a Layer 2 device for the PCs to communicate with each other.
- D. With a network wide mask of 255.255.255.0, must be a Layer 3 device for the PCs to communicate with each other.
- E. With a network wide mask of 255.255.254.0, each interface does not require an IP address.

Correct Answer: BDE

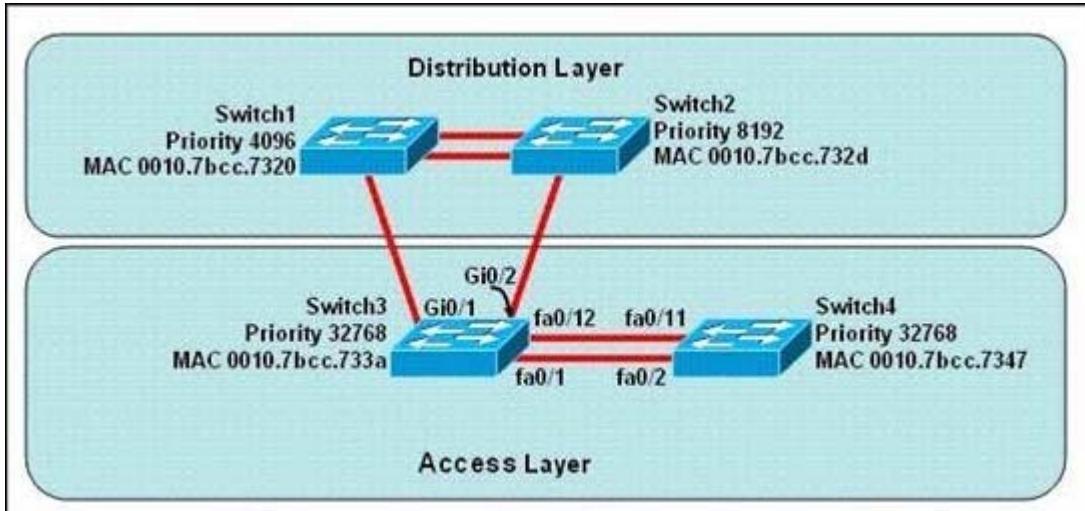
Section: (none)

Explanation

Explanation/Reference:

QUESTION 224

Refer to the exhibit.



At the end of an RSTP election process, which access layer switch port will assume the discarding role?

- A. Switch3, port fa0/1
- B. Switch3, port fa0/12
- C. Switch4, port fa0/11
- D. Switch4, port fa0/2
- E. Switch3, port Gi0/1
- F. Switch3, port Gi0/2

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 225

Refer to the exhibit.

Why is flash memory erased prior to upgrading the IOS image from the TFTP server?

- A. The router cannot verify that the Cisco IOS image currently in flash is valid
 - B. Flash memory on Cisco routers can contain only a single IOS image.
 - C. Erasing current flash content is requested during the copy dialog.
 - D. In order for the router to use the new image as the default, it must be the only IOS image in flash.

Correct Answer: C

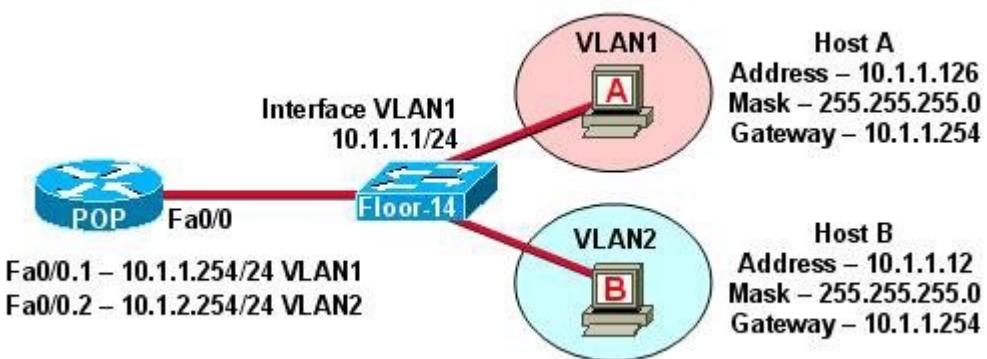
Section: (none)

Explanation

Explanation/Reference:

QUESTION 226

Refer to the exhibit.



The network shown in the diagram is experiencing connectivity problems. Which of the following will correct the problems? (Choose two.)

- A. Configure the gateway on Host A as 10.1.1.1.
- B. Configure the gateway on Host B as 10.1.2.254.
- C. Configure the IP address of Host A as 10.1.2.2.
- D. Configure the IP address of Host B as 10.1.2.2.
- E. Configure the masks on both hosts to be 255.255.255.224.
- F. Configure the masks on both hosts to be 255.255.255.240.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 227

Which statement about vlan operation on cisco catalyst switches is true?

- A. when a packet is received from an 802.1Q trunk, the vlan id can be determined from the source MAC address table.
- B. unkown unicast frames are retransmitted only to the ports that belong to the same vlan
- C. ports between switches should be configured in access mode so that vlans can span across the ports
- D. broadcast and multicast frames are retransmitted to ports that are configured on different vlan

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 228

When a router is unable to find a known route in the routing table, how dose it handle the pacet?

- A. It sends the packet to the next hop address
- B. It sends the packet to the gateway of last resort
- C. It discards the packet
- D. It sends the packet over the route with the best metric

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 229

For what two purposes does the Ethernet protocol use physical addresses? (Choose two.)

- A. to uniquely identify devices at Layer 2
- B. to allow communication with devices on a different network
- C. to differentiate a Layer 2 frame from a Layer 3 packet
- D. to establish a priority system to determine which device gets to transmit first
- E. to allow communication between different devices on the same network

- F. to allow detection of a remote device when its physical address is unknown

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 230

Which command can you enter to display the operational status of the network ports on a router?

- A. show interface switchport
- B. show ip interface brief
- C. show running-config interface fastethernet 0/1
- D. show interface status

Correct Answer: B

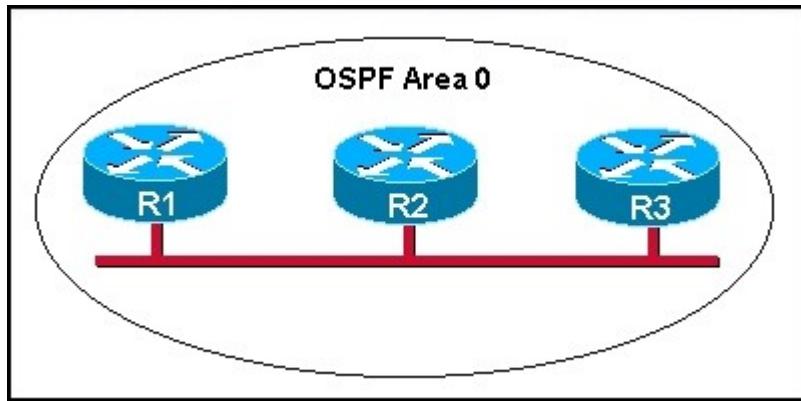
Section: (none)

Explanation

Explanation/Reference:

QUESTION 231

Refer to the graphic.



R1 is unable to establish an OSPF neighbor relationship with R3. What are possible reasons for this problem? (Choose two.)

- A. All of the routers need to be configured for backbone Area 1.
- B. R1 and R2 are the DR and BDR, so OSPF will not establish neighbor adjacency with R3.
- C. A static route has been configured from R1 to R3 and prevents the neighbor adjacency from being established.
- D. The hello and dead interval timers are not set to the same values on R1 and R3.
- E. EIGRP is also configured on these routers with a lower administrative distance.
- F. R1 and R3 are configured in different areas.

Correct Answer: DF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 232

Which switch would STP choose to become the root bridge in the selection process?

- A. 32768: 11-22-33-44-55-66
- B. 32768: 22-33-44-55-66-77
- C. 32769: 11-22-33-44-55-65
- D. 32769: 22-33-44-55-66-78

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 233

Which command can you enter to verify link speed and duplex setting on the interface?

```
Router(config)# interface gigabitEthernet 0/1
Router(config)# ip address 192.168.1.1 255.255.255.0
Router(config)# speed 100
Router(config)# duplex full
```

- A. router#show protocols
- B. router#show startup-config
- C. router#show line
- D. router#show interface gig0/1

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 234

Which IEEE mechanism is responsible for the authentication of devices when they attempt to connect to a local network?

- A. 802.1x
- B. 802.11
- C. 802.2x
- D. 802.3x

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 235

If router R1 knows a static route to a destination network and then learns about the same destination network through a dynamic routing protocol, how does R1 respond?

- A. It refuses to advertise the dynamic route to other neighbors
- B. It sends a withdrawal signal to the neighboring router
- C. It disables the routing protocol
- D. It prefers the static route

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 236

Which two statements about floating static routes are true? (Choose two)

- A. They are routes to the exact /32 destination address
- B. They are used when a route to the destination network is missing
- C. They have a higher administrative distance than the default static route administrative distance
- D. They are used as back-up routes when the primary route goes down
- E. They are dynamic routes that are learned from a server

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 237

When you enable PortFast on a switch port, the port immediately transitions to which state?

- A. Blocking
- B. Forwarding
- C. Learning
- D. Listening

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 238

Refer to the exhibit.

```

R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, L1, L2 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS intra-area, - candidate default, U - per-user static route
      o - ODR, P - periodic downloaded route

Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C 192.168.12.0/24 is directly connected, FastEthernet0/0
C 192.168.13.0/24 is directly connected, FastEthernet0/1
C 192.168.14.0/24 is directly connected, FastEthernet1/0
O 192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
O    192.168.10.0/24 [110/2] via 192.168.14.4, 00:02:01, FastEthernet1/0
O    192.168.10.32/27 [110/11] via 192.168.13.3, 00:00:52, FastEthernet0/1
O    192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, FastEthernet1/1
D    192.168.10.1/32 [90/52778] via 192.168.12.2, 00:03:44, FastEthernet0/0
*E2 0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0

```

If R1 receives a packet destined to 172.16.1.1, to which IP address does it send the

- A. 192.168.14.4
- B. 192.168.12.2
- C. 192.168.13.3
- D. 192.168.15.5

Correct Answer: A

Section: (none)

Explanation:

Explanation/Reference:

QUESTION 239

What is the danger of the permit any entry in a NAT access list?

- A. It can lead to overloaded resources on the router
- B. It can cause too many addresses to be assigned to the same interface.
- C. It can disable the overload command.
- D. It prevents the correct translation of IP addresses on the inside network.

Correct Answer: A

Section: (none)

Explanation:

Explanation/Reference:

QUESTION 240

How does a DHCP server dynamically assign IP addresses to hosts?

- A. Addresses are permanently assigned so that the host uses the same address at all times
- B. Addresses are assigned for a fixed period of time. At the end of the period, a new request for an address must be made, and another address is then assigned.
- C. Addresses are leased to hosts. A host will usually keep the same address by periodically contacting the DHCP server to renew the lease.
- D. Addresses are allocated after a negotiation between the server and the host to determine the length of the agreement.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 241

What is the command to see assigned address in DHCP?

- A. show ip DHCP statistic
- B. show ip dhcp pool
- C. show ip dhcp binding
- D. show ip dhcp database

Correct Answer: C

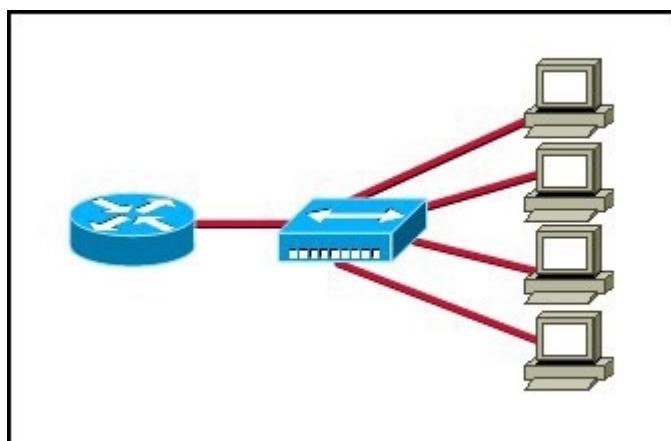
Section: (none)

Explanation

Explanation/Reference:

QUESTION 242

Refer to the exhibit.



What two results would occur if the hub were to be replaced with a switch that is configured with one Ethernet VLAN? (Choose two)

- A. The number of collision domains would decrease.
- B. The number of collision domains would increase.
- C. The number of broadcast domains would remain the same.
- D. The number of collision domains would remain the same.
- E. The number of broadcast domains would increase.

Correct Answer: BC

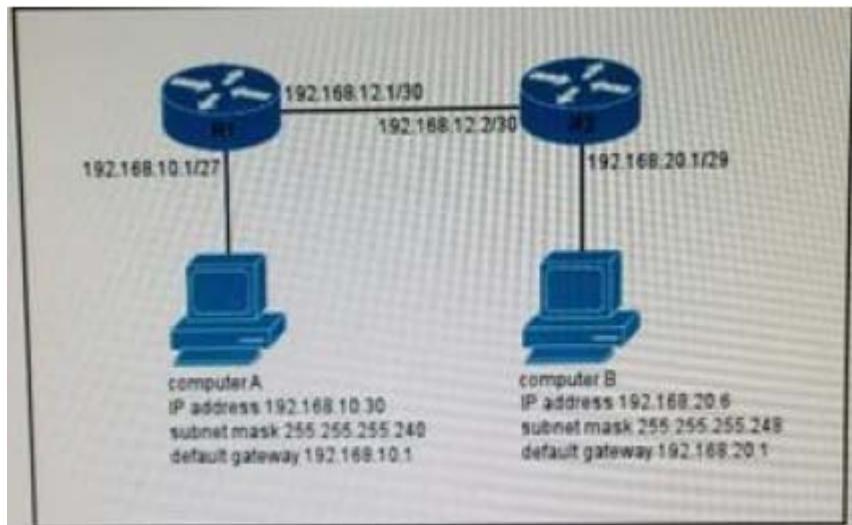
Section: (none)

Explanation

Explanation/Reference:

QUESTION 243

Refer to the exhibit, you determine that Computer A cannot ping Computer



Which reason for the problem is most likely true?

- A. The Subnet mask for Computer A is incorrect
- B. The default gateway address for Computer A is incorrect
- C. The subnet mask for computer B is incorrect.
- D. The default gateway address for computer B is incorrect

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 244

Which effect of the passive-interface command on R1 is true?

R1

```
interface FastEthernet0/0
    description site id:14115168
    ip address 172.16.0.1 255.255.0.0
```

```
interface FastEthernet0/1
    description site id:14115168
    ip address 172.17.0.1 255.255.0.0
```

```
router rip
    passive-interface FastEthernet0/0
    network 172.16.0.0
    network 172.17.0.0
    version 2
```

- A. It prevents interface Fa0/0 from sending updates.
- B. Interface Fa 0/0 operates in RIPv1 mode.
- C. It removes the 172.16.0.0 network from all updates on all interfaces on R1.
- D. It removes the 172.16.0.0 network from all updates on all interfaces on R1.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 245

Which three encapsulation layers in the OSI model are combined into the TCP/IP application layer? (Choose three)

- A. Session
- B. transport
- C. presentation
- D. application
- E. data-link
- F. network

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 246

When is the most appropriate time to escalate an issue that you troubleshooting?

- A. When you lack the proper to resolve the issue.
- B. When a more urgent issue that requires your intervention is detected
- C. When you have gathered all information about an issue
- D. When you have been unable to resolve the issue after 30 min

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 247

Which two command can you enter to display the current time sources statistics on devices ? (Choose two)

- A. Show ntp associations.
- B. Show clock details
- C. Show clock.
- D. Show time.
- E. Show ntp status

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 248

Which address class includes network 191.168.0.1/27?

- A. Class C
- B. Class B
- C. Class D
- D. Class A

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 249

On which type of port can switches interconnect for multi-VLAN communication?

- A. interface port
- B. access port
- C. switch port
- D. trunk port

Correct Answer: D

Section: (none)
Explanation

Explanation/Reference:

QUESTION 250

Refer to the exhibit.

```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default, U - per-user static route
      o - QDR, P - periodic downloaded static route
Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C    192.168.12.0/24 is directly connected, FastEthernet0/0
C    192.168.13.0/24 is directly connected, FastEthernet0/1
C    192.168.14.0/24 is directly connected, FastEthernet1/0
192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
O      192.168.10.0/24 [110/2] via 192.168.14.4, 00:02:01, FastEthernet1/0
O      192.168.10.32/27 [110/11] via 192.168.13.3, 00:00:50, FastEthernet0/1
O      192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, FastEthernet1/1
D      192.168.10.1/32 [90/52778] via 192.168.12.2, 00:03:44, FastEthernet0/0
*E2  0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0
```

If R1 sends traffic to 192.168.101.45 the traffic is sent through which interface?

- A. FastEthernet0/1
- B. FastEthernet0/0
- C. FastEthernet1/0
- D. FastEthernet1/1

Correct Answer: D

Section: (none)
Explanation

Explanation/Reference:

QUESTION 251

How does a router handle an incoming packet whose destination network is missing from the Routing table?

- A. it discards the packet.
- B. it broadcasts the packet to each network on the router.
- C. it routes the packet to the default route.
- D. it broadcasts the packet to each interface on the router

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:

QUESTION 252

Which IPV6 function serves the same purpose as ARP entry verification on an IPv4 network?

- A. interface ip address verification
- B. MAC address table verification
- C. neighbor discovery verification
- D. Routing table entry verification

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 253

Which HSRP feature was new in HSRPv2?

- A. VLAN group numbers that are greater than 255
- B. Virtual MAC addresses
- C. tracking
- D. preemption

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 254

When you troubleshoot an IPv4 connectivity issue on a router, which three router configuration checks you must perform?(choose three)

- A. Verify that the router interface IP address IP address is correct.
- B. Verify that the DNS is configured correctly.
- C. Verify that the router and the host use the same subnet mask.
- D. Verify that the router firmware is up-to-date.
- E. Verify that a default route is configured.
- F. Verify that the route appears in the Routing table

Correct Answer: ACF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 255

Configuration of which option is required on a Cisco switch for the Cisco IP phone to work?

- A. PortFast on the interface
- B. the interface as an access port to allow the voice VLAN ID
- C. a voice VLAN ID in interface and global configuration mode
- D. Cisco Discovery Protocol in global configuration mode

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 256

Which method does a connected trunk port use to tag VLAN traffic?

- A. IEEE 802 1w
- B. IEEE 802 1D
- C. IEEE 802 1Q
- D. IEEE 802 1p

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 257

Which RFC was created to alleviate the depletion of IPv4 public addresses?

- A. RFC 4193
- B. RFC 1519
- C. RFC 1518
- D. RFC 1918

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 258

What is the default lease time for a DHCP binding?

- A. 24 hours
- B. 12 hours
- C. 48 hours
- D. 36 hours

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 259

Which NAT type is used to translate a single inside address to a single outside address?

- A. dynamic NAT
- B. NAT overload
- C. PAT
- D. static NAT

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 260

Which network topology allows all traffic to flow through a central hub

- A. bus
- B. star
- C. mesh
- D. ring

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 261

Which statement about a router on a stick is true?

- A. Its date plane router traffic for a single VLAN over two or more switches
- B. It uses multiple subinterfaces of a single interface to encapsulate traffic for different VLANs on the same subnet
- C. It requires the native VLAN to be disabled
- D. It uses multiple subinterfaces of a single interface to encapsulate traffic for different VLANs.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 262

By default, how many MAC addresses are permitted to be learned on a switch port with port security enabled?

- A. 8
- B. 2
- C. 1
- D. 0

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 263

Which device allows users to connect to the network using a single or double radio?

- A. access point
- B. switch
- C. wireless controller
- D. firewall

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 264

When enabled, which feature prevents routing protocols from sending hello messages on an interface?

- A. virtual links
- B. passive-interface
- C. directed neighbors
- D. OSPF areas

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 265

Refer to the exhibit.

```
Router# configure terminal  
Router (config)# vlan 10  
Router (config-vlan)# do show vlan
```

Which statement describes the effect of this configuration?

- A. The VLAN 10 VTP configuration is displayed
- B. VLAN 10 spanning-tree output is displayed
- C. The VLAN 10 configuration is saved when the router exits VLAN configuration mode
- D. VLAN 10 is added to the VLAN database

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 266

Which route source code represents the routing protocol with a default administrative distance of 90 in the routing table?

- A. S
- B. E
- C. D
- D. R
- E. O

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 267

Which statement about native VLAN traffic is true?

- A. Cisco Discovery Protocol traffic travels on the native VLAN by default
- B. Traffic on the native VLAN is tagged with 1 by default
- C. Control plane traffic is blocked on the native VLAN.
- D. The native VLAN is typically disabled for security reasons

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 268

Which statement about unicast frame forwarding on a switch is true?

- A. The TCAM table stores destination MAC addresses
- B. If the destination MAC address is unknown, the frame is flooded to every port that is configured in the same VLAN except on the port that it was received on.
- C. The CAM table is used to determine whether traffic is permitted or denied on a switch
- D. The source address is used to determine the switch port to which a frame is forwarded

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 269

Which component of the routing table ranks routing protocols according to their preferences?

- A. administrative distance
- B. next hop
- C. metric

D. routing protocol code

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 270

Which two authentic methods are compatible with MLPPP on a serial Interface?(choose two)

- A. PEAP
- B. CHAP
- C. TACACS+
- D. PAP
- E. LEAP

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 271

What is the effect of the overload keyword in a static NAT translation configuration?

- A. It enables port address translation
- B. It enables the use of a secondary pool of IP addresses when the first pool is depleted.
- C. It enables the inside interface to receive traffic.
- D. It enables the outside interface to forward traffic.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 272

Which two statements about VTP are true? (Choose two.)

- A. All switches must be configured with the same VTP domain name
- B. All switches must be configured to perform trunk negotiation.
- C. All switches must be configured with a unique VTP domain name
- D. The VTP server must have the highest revision number in the domain
- E. All switches must use the same VTP version.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 273

Refer to the exhibit.

```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default,    + - user static route
      o - OSPF, P - periodic downloaded static route

Gateway of last resort is 192.168.14.4 to network 192.168.14.0

C  192.168.12.0/24 is directly connected, FastEthernet0/0
C  192.168.13.0/24 is directly connected, FastEthernet0/1
C  192.168.14.0/24 is directly connected, FastEthernet1/0
O  192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
O  192.168.10.32/27 [110/1] via 192.168.14.4, 00:00:01, FastEthernet1/0
O  192.168.10.64/27 [110/1] via 192.168.13.3, 00:00:51, FastEthernet0/1
O  192.168.10.1/32 [110/2] via 192.168.13.5, 00:05:01, FastEthernet1/1
D  192.168.10.1/32 [190/52775] via 192.168.12.2, 00:03:44, FastEthernet0/0
* 0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0
```

On R1 which routing protocol is in use on the route to 192.168.10.1?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 274

Which two options are the best reasons to use an IPV4 private IP space?(choose two)

- A. to enable intra-enterprise communication
- B. to implement NAT
- C. to connect applications
- D. to conserve global address space
- E. to manage routing overhead

Correct Answer: AD

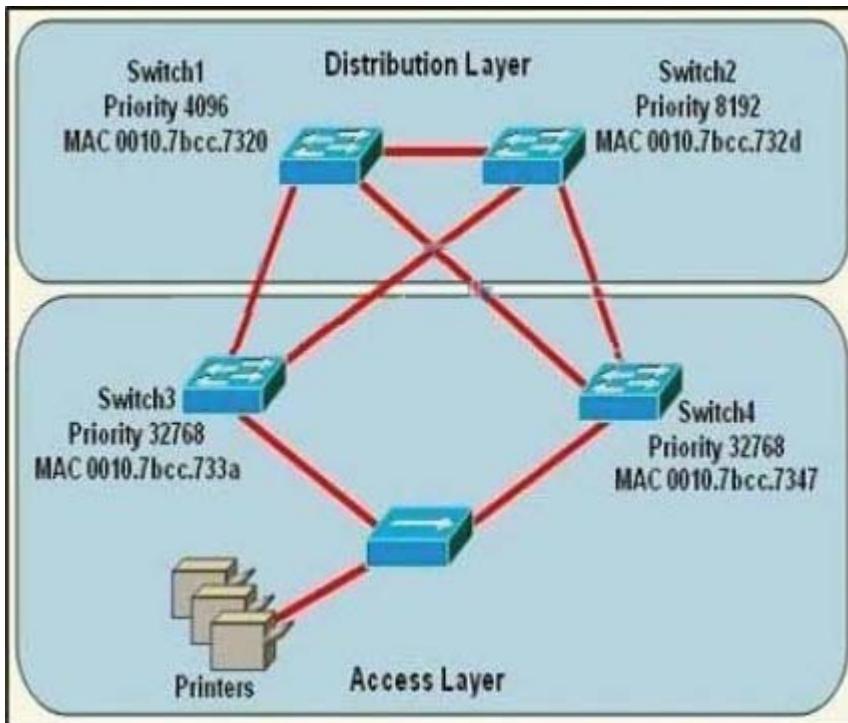
Section: (none)

Explanation

Explanation/Reference:

QUESTION 275

Refer to the exhibit.



What switch proves the spanning-tree designated port role for the network segment that services the printers?

- A. Switch1
- B. Switch2
- C. Switch3
- D. Switch4

Correct Answer: C

Section: (none)

Explanation:

Explanation/Reference:

QUESTION 276

Assuming a subnet mask of 255.255.248.0, three of the following addresses are valid host addresses. Which are these addresses? (Choose three.)

- A. 172.16.9.0
- B. 172.16.8.0
- C. 172.16.31.0
- D. 172.16.20.0

Correct Answer: ACD

Section: (none)

Explanation:

Explanation/Reference:

QUESTION 277

Which type does a port become when it receives the best BPDU on a bridge?

- A. The designated port
- B. The backup port
- C. The alternate port
- D. The root port

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 278

Which value can you modify to configure a specific interface as the preferred forwarding interface?

- A. The interface number
- B. The port priority
- C. The VLAN priority
- D. The hello time

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 279

Which statement about VLAN configuration is true?

- A. The switch must be in VTP server or transparent mode before you can configure a VLAN
- B. The switch must be in config-vlan mode before you configure an extended VLAN
- C. Dynamic inter-VLAN routing is supported on VLAN2 through VLAN 4094
- D. A switch in VTP transparent mode saves the VLAN databases to the running configuration only

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 280

In which two situations should you use out-of-band management?

- A. when a network device fails to forward packets
- B. when you require ROMMON access
- C. when management applications need concurrent access to the device
- D. when you require administrator access from multiple locations
- E. when the control plane fails to respond

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 281

Which command can you enter to configure a local username with an encrypted password and EXEC mode user privileges?

- A. Router(config)#username jdone privilege 1 password 7 08314D5D1A48
- B. Router(config)#username jdone privilege 1 password 7 PASSWORD1
- C. Router(config)#username jdone privilege 15 password 0 08314D5D1A48
- D. Router(config)#username jdone privilege 15 password 0 PASSWORD1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 282

What happens when an 802.11a node broadcasts within the range of an 802.11g access point?

- A. The access point transmits, but the node is unable to receive.
- B. A connection occurs
- C. Both the node and the access point are unable to transmit.
- D. The node transmits, but the access point is unable to receive.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 283

Which value is indicated by the next hop in a routing table?

- A. preference of the route source
- B. IP address of the remote router for forwarding the packets
- C. how the route was learned
- D. exit interface IP address for forwarding the packets

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 284

Which statement about the inside interface configuration in a NAT deployment is true?

- A. It is defined globally
- B. It identifies the location of source addresses for outgoing packets to be translated using access or route maps.
- C. It must be configured if static NAT is used
- D. It identifies the public IP address that traffic will use to reach the internet

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 285

Which option is the default switch port port-security violation mode?

- A. shutdown
- B. protect
- C. shutdown vlan
- D. restrict

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 286

Which entity assigns IPv6 addresses to end users?

- A. ICANN
- B. APNIC
- C. RIR
- D. ISPs

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 287

Which value indicate the distance from the ntp authoritative time source?

- A. priority
- B. location
- C. layer
- D. stratum

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 288

Which NTP type designates a router without an external reference clock as an authoritative time source?

- A. server
- B. peer
- C. master
- D. client

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 289

Which 3 feature are represented by A letter in AAA? (Choose Three)

- A. authorization
- B. accounting
- C. authentication
- D. accountability
- E. accessibility
- F. authority

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 290

When you deploy multilink PPP on your network, where must you configure the group IP Address on each device?

- A. in the global config
- B. Under serial interface
- C. Under the routing protocol
- D. Under the multilink interface

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 291

What are two statement for SSH?

- A. use port 22

- B. unsecured
- C. encrypted
- D. most common remote-access method
- E. operate at transport

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 292

Host is able to ping a web server but it is not able to do HTTP request.

- A. ACL blocking port 23
- B. ACL blocking All ports
- C. ACL blocking port 80
- D. ACL blocking port 443
- E. None of the above

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 293

Which NTP command configures the local devices as an NTP reference clock source?

- A. NTP Peer
- B. NTP Broadcast
- C. NTP Master
- D. NTP Server

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 294

Which item represents the standard IP ACL?

- A. Access-list 110 permit any any
- B. Access-list 50 deny 192.168.1.1 0.0.0.255
- C. Access list 101 deny tvp any host 192.168.1.1
- D. Access-list 2500 deny tcp any host 192.168.1.1 eq 22

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 295

Which statement about recovering a password on a Cisco router is true?

- A. The default reset password is cisco
- B. It requires a secure SSI/VPN connection
- C. A factory reset is required if you forget the password
- D. It requires physical access to the router

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 296

Where information about untrusted hosts are stored?

- A. CAM table
- B. Trunk table
- C. MAC table
- D. binding database

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Builds and maintains the DHCP snooping binding database, which contains information about untrusted hosts with leased IP addresses.

QUESTION 297

Which two options are primary responsibilities of the APIC-EM controller? (Choose two.)

- A. It automates network actions between different device types
- B. It provides robust asset management.
- C. It tracks license usage and Cisco IOS versions.
- D. It automates network actions between legacy equipment.
- E. It makes network functions programmable.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 298

Which two statements about TACACS+ are true? (Choose two.)

- A. It can run on a UNIX server.
- B. It authenticates against the user database on the local device.
- C. It is more secure than AAA authentication.
- D. It is enabled on Cisco routers by default.
- E. It uses a managed database.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 299

If three devices are plugged into one port on a switch and two devices are plugged into a different port, how many collision domains are on the switch?

- A. 2
- B. 4
- C. 5
- D. 6

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 300

Which three commands must you enter to create a trunk that allows VLAN 20? (Choose three.)

- A. Switch(config-if)#switchport mode dynamic auto
- B. Switch(config-if)#switchport mode trunk
- C. Switch(config-if)#switchport trunk allowed vlan 20
- D. Switch(config-if)#switchport mode dynamic desirable
- E. Switch(config-if)#switchport trunk encapsulation dot1q
- F. Switch(config-if)#switchport trunk native vlan 20

Correct Answer: BCE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 301

Which two passwords must be supplied in order to connect by Telnet to a properly secured Cisco switch and make changes to the device configuration? (Choose two.)

- A. tty password
- B. enable secret password
- C. vty password
- D. aux password

- E. console password
- F. username password

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 302

In order to comply with new auditing standards, a security administrator must be able to correlate system security alert logs directly with the employee who triggers the alert. Which of the following should the security administrator implement in order to meet this requirement?

- A. Access control lists on file servers
- B. Elimination of shared accounts
- C. Group-based privileges for accounts
- D. Periodic user account access reviews

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 303

If you want multiple hosts on a network, where do you configure the setting?

- A. in the IP protocol
- B. in the multicast interface
- C. in the serial interface
- D. in the global configuration

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 304

Which option is the benefit of implementing an intelligent DNS for a cloud computing solution?

- A. It reduces the need for a backup data center.
- B. It can redirect user requests to locations that are using fewer network resources.
- C. It enables the ISP to maintain DNS records automatically.
- D. It eliminates the need for a GSS.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 305

Which statement about the IP SLAs ICMP Echo operation is true?

- A. The frequency of the operation is specified in milliseconds.
- B. It is used to identify the best source interface from which to send traffic.
- C. It is used to identify the best source interface from which to send traffic.
- D. It is used to determine the frequency of ICMP packets.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 306

Which action can change the order of entries in a named access-list?

- A. removing an entry
- B. opening the access-list in notepad
- C. adding an entry
- D. resequencing

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 307

Which two components are used to identify a neighbor in a BGP configuration? (Choose two.)

- A. autonomous system number
- B. version number
- C. router ID
- D. subnet mask
- E. IP address

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 308

Which component of a routing table entry represents the subnet mask?

- A. Routing protocol code
- B. Prefix
- C. metric

D. Network mask

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 309

How can you disable DTP on a switch port?

- A. Configure the switch port as a trunk.
- B. Add an interface on the switch to a channel group.
- C. Change the operational mode to static access
- D. Change the administrative mode to access

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 310

Which three are the components of SNMP? (Choose three)

- A. MIB
- B. manager
- C. supervisor
- D. agent
- E. set
- F. AES

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 311

Which technology can enable multiple VLANs to communicate with one another?

- A. inter-VLAN routing using a Layer 3 switch
- B. inter-VLAN routing using a Layer 2 switch
- C. intra-VLAN routing using router on a stick
- D. intra-VLAN routing using a Layer 3 switch

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 312

Which command you enter on a switch to display the ip address associated with connected devices?

- A. Show cdp neighbors detail
- B. Show cdp neighbor
- C. Show cdp interface
- D. Show cdp traffic

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 313

Which protocol is a Cisco proprietary implementation of STP?

- A. CST
- B. RSTP
- C. MSTP
- D. PVST+

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 314

Which Type of ipv6 unicast ip address is reachable across the internet ?

- A. Unique Local
- B. Compatible
- C. Link local
- D. Global

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 315

Refer to the exhibit .

Which Command do you enter so that R1 advertises the loopback0 interface to the BGP Peers?

- A. Network 172.16.1.32 mask 255.255.255.224
- B. Network 172.16.1.0 0.0.0.255
- C. Network 172.16.1.32 255.255.255.224
- D. Network 172.16.1.33 mask 255.255.255.224

- E. Network 172.16.1.32 mask 0.0.0.31
- F. Network 172.16.1.32 0.0.0.31

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 316

Which networking Technology is currently recognized as the standard for computer networking?

- A. System network architecture
- B. Transmission control protocol/Internet protocol
- C. Open system Interconnect
- D. Open network architecture

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 317

Which two tasks does the Dynamic Host Configuration Protocol perform? (Choose two.)

- A. Set the IP gateway to be used by the network
- B. Perform host discovery used DHCPDISCOVER message.
- C. Configure IP address parameters from DHCP server to a host.
- D. Provide an easy management of layer 3 devices.
- E. Monitor IP performance using the DHCP server.
- F. Assign and renew IP address from the default pool.

Correct Answer: CF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 318

VLAN 3 is not yet configured on your switch.

What happens if you set the switchport access vlan 3 command interface configuration mode?

- A. The command is accepted and the respective VLAN is added to vlan dat.
- B. The command is rejected.
- C. The command is accepted and you must configure the VLAN manually.
- D. The port turns amber.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 319

Which command is used to enable CHAP authentication with PAP as the fallback method on a serial interface?

- A. (config-if)#authentication ppp chap fallback ppp
- B. (config-if)#authentication ppp chap pap
- C. (config-if)#ppp authentication chap pap
- D. (config-if)#ppp authentication chap fallback ppp

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 320

What is the effect of using the service password-encryption command?

- A. only passwords configured after the command has been entered will be encrypted.
- B. Only the enable password will be encrypted.
- C. Only the enable secret password will be encrypted
- D. It will encrypt the secret password and remove the enable secret password from the configuration.
- E. It will encrypt all current and future passwords.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 321

Which two are advantages of static routing when compared to dynamic routing?(choose two)

- A. Security increases because only the network administrator may change the routing tables.
- B. Configuration complexity decreases as network size increases.
- C. Routing updates are automatically sent to neighbors.
- D. Route summarization is computed automatically by the router.
- E. Routing traffic load is reduced when used in stub network links
- F. An efficient algorithm is used to build routing tables, using automatic updates.
- G. Routing tables adapt automatically to topology changes.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 322

Which of the following are the valid numbers of standard ACL (choose two)

- A. 50
- B. 1550
- C. 150
- D. 1250
- E. 2050

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 323

Three switches are connected to one another via trunk ports. Assuming the default switch configuration, which switch is elected as the root bridge for the spanning-tree instance of vlan 1?

- A. the switch with the lowest MAC address
- B. the switch with the highest MAC address
- C. the switch with the highest IP address
- D. the switch with the lowest IP address

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 324

Which command can be used from a PC to verify the connectivity between hosts that connect through a switch in the same LAN?

- A. ping address
- B. tracert address
- C. traceroute address
- D. arp address

Correct Answer: A

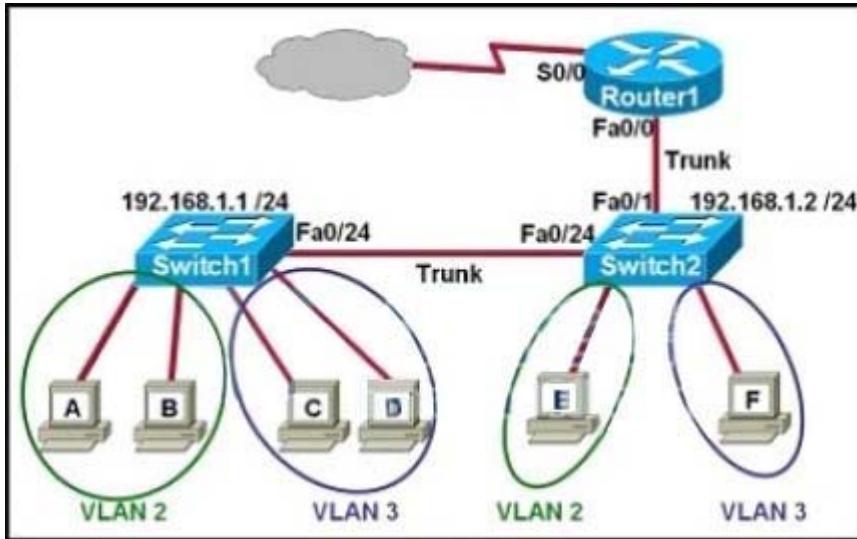
Section: (none)

Explanation

Explanation/Reference:

QUESTION 325

Refer to the exhibit.



Which two statements are true about inter VLAN routing in the topology that is shown in the exhibit? (Choose two.)

- A. Host E and host F use the same IP gateway address.
- B. Router1 and Switch2 should be connected via a crossover cable.
- C. Router1 will not play a role in communications between host A and host D.
- D. The FastEthernet 0/0 interface on Router1 must be configured with subinterfaces
- E. Router1 needs more LAN interfaces to accommodate the VLANs that are shown in the exhibit.
- F. The FastEthernet 0/0 interface on Router1 and Switch2 trunk ports must be configured using the same encapsulation type

Correct Answer: DF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 326

What value is primarily used to determine which port becomes the root port on each nonroot switch in a spanning-tree topology?

- A. lowest port MAC address
- B. port priority number and MAC address.
- C. VTP revision number
- D. highest port priority number.
- E. path cost

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 327

Which command enables RSTP on a switch?

- A. spanning-tree mode rapid-pvst
- B. spanning-tree uplinkfast
- C. spanning-tree backbonefast
- D. spanning-tree mode mst

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 328

A switch is configured with all ports assigned to vlan 2 with full duplex FastEthernet to segment existing departmental traffic.

What is the effect of adding switch ports to a new VLAN on the switch?

- A. More collision domains will be created.
- B. IP address utilization will be more efficient.
- C. More bandwidth will be required than was needed previously
- D. An additional broadcast domain will be created.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 329

Cisco Catalyst switches CAT1 and CAT2 have a connection between them using ports FA0/13. An 802.1Q trunk is configured between the two switches. On CAT1, VLAN 10 is chosen as native, but on CAT2 the native VLAN is not specified.

What will happen in this scenario?

- A. 802.1Q giants frames could saturate the link.
- B. VLAN 10 on CAT1 and VLAN 1 on CAT2 will send untagged frames.
- C. A native VLAN mismatch error message will appear.
- D. VLAN 10 on CAT1 and VLAN 1 on CAT2 will send tagged frames.

Correct Answer: C

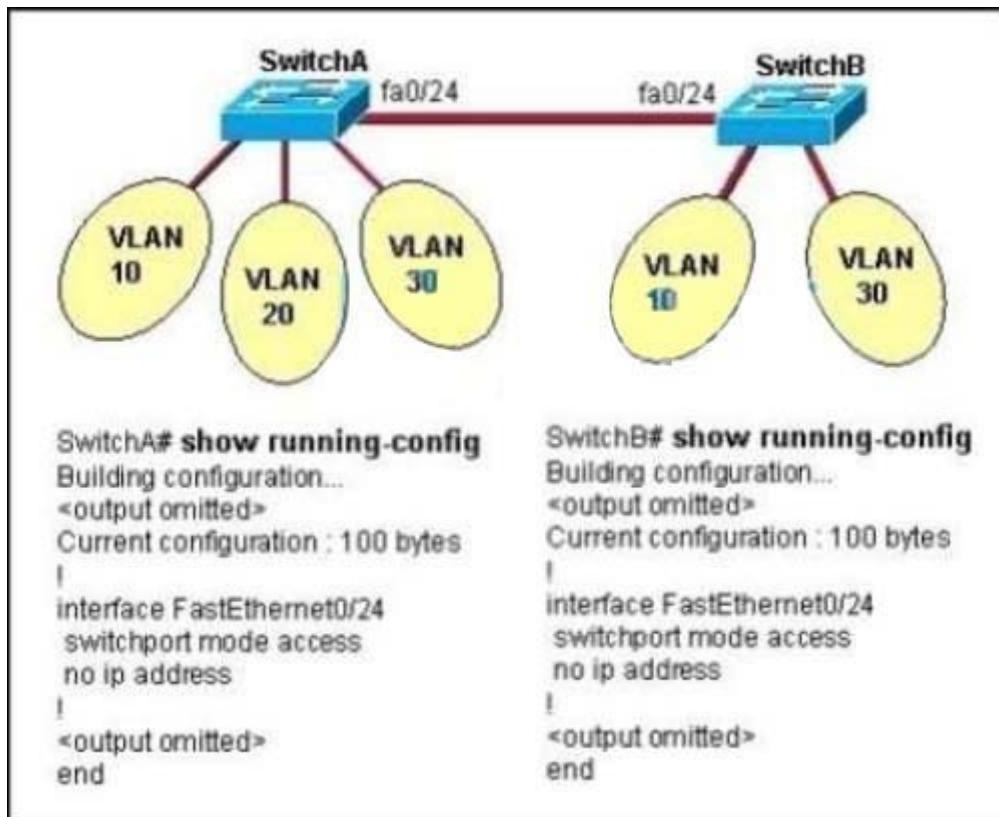
Section: (none)

Explanation

Explanation/Reference:

QUESTION 330

Refer to the exhibit.



All switch ports are assigned to the correct VLANs, but none of the hosts connected to SwitchA can communicate with hosts in the same VLAN connected to SwitchB. Based on the output shown, what is the most likely problem?

- A. The access link needs to be configured in multiple VLANs.
- B. The link between the switches is configured in the wrong VLAN.
- C. The link between the switches needs to be configured as a trunk.
- D. VTP is not configured to carry VLAN information between the switches.
- E. Switch IP addresses must be configured in order for traffic to be forwarded between the switches

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 331

What is the function of the command `switchport trunk native vlan 999` on a switch?

- A. It designates VLAN 999 for untagged traffic
- B. It blocks VLAN 999 traffic from passing on the trunk.
- C. It creates a VLAN 999 interface.
- D. It designates VLAN 999 as the default for all unknown tagged traffic

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 332

Which parameter or parameters are used to calculate OSPF cost in cisco routers?

- A. Bandwidth, Delay, and MTU
- B. Bandwidth
- C. Bandwidth and MTU
- D. Bandwidth, MTU, Reliability, Delay, and Load

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 333

Which command shows your active Telnet connections?

- A. show session
- B. show cdp neighbors
- C. show users
- D. show queue

Correct Answer: A

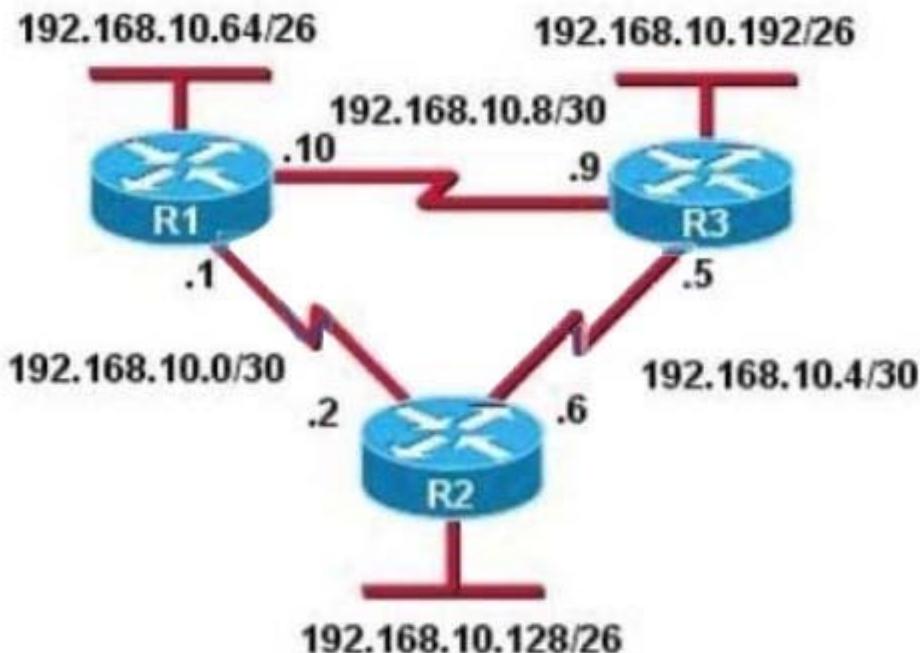
Section: (none)

Explanation

Explanation/Reference:

QUESTION 334

Refer to the exhibit.



R3# **show ip route**

Gateway of last resort is not set

- 192.168.10.0/24 is variably subnetted, 6 subnets, 2 masks
- D 192.168.10.64/26 [90/2195456] via 192.168.10.9, 00:03:31, Serial0/0
- D 192.168.10.0/30 [90/2681856] via 192.168.10.9, 00:03:31, Serial0/0
[90/2681856] via 192.168.10.5, 00:03:31, Serial0/1
- C 192.168.10.4/30 is directly connected, Serial 0/1
- C 192.168.10.8/30 is directly connected, Serial 0/0
- C 192.168.10.192/26 is directly connected, FastEthernet0/0
- D 192.168.10.128/26 [90/2195456] via 192.168.10.5, 00:03:31, Serial 0/1

Based on the exhibited routing table, how will packets from a host within the 192.168.10.192/26 LAN be forwarded to 192.168.10.1?

- A. The router will forward packets from R3 to R2 to R1.
- B. The router will forward packets from R3 to R1 to R2.
- C. The router will forward packets from R3 to R2 to R1 AND from R3 to R1.
- D. The router will forward packets from R3 to R1.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 335

Refer to the exhibit.

```
Router#config
```

```
Router(config)#line vty 0 4
```

```
Router(config-line)#password c1 sc0
```

```
Router(config-line)#login
```

Which user-mode password has just been set?

- A. Telnet
- B. Auxiliary
- C. SSH
- D. Console

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 336

Refer to the exhibit.

```
Router# show ip dhcp conflict
IP address      Detection method    Detection time
172.16.1.32     Ping                  Feb 16 1998 12:28 PM
172.16.1.64     Gratuitous ARP       Feb 23 1998 08:12 AM
```

Which rule does the DHCP server use when there is an IP address conflict?

- A. The address is removed from the pool until the conflict is resolved.
- B. The address remains in the pool until the conflict is resolved.
- C. Only the IP detected by Gratuitous ARP is removed from the pool.
- D. Only the IP detected by Ping is removed from the pool.
- E. The IP will be shown, even after the conflict is resolved.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 337

How is provided master redundancy on a stacked switches?

- A. 1:N
- B. N:1
- C. 1:1
- D. 1+N

Correct Answer: A

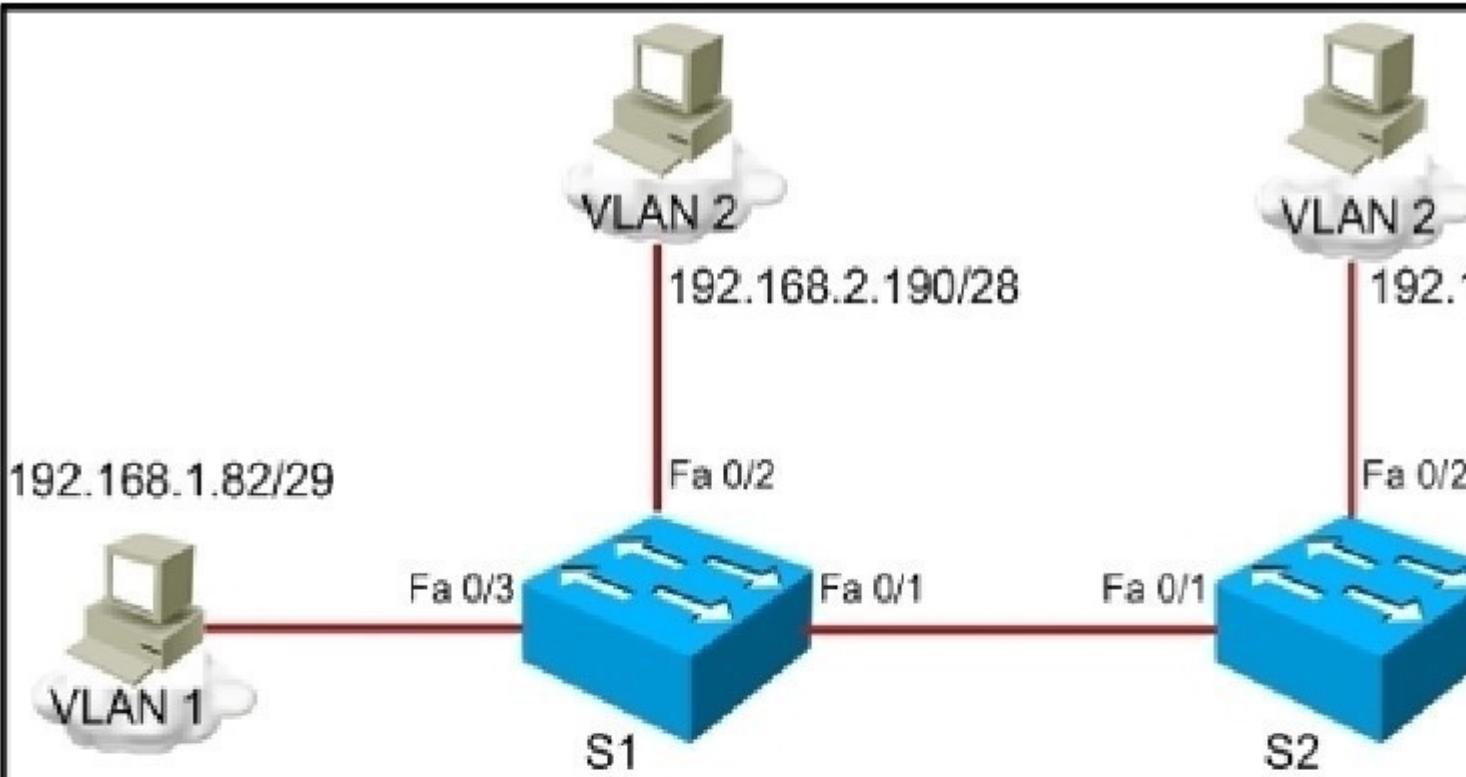
Section: (none)

Explanation

Explanation/Reference:

QUESTION 338

Refer to the exhibit



S1#show interface trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1

Port Vlans allowed on trunk

Fa0/1 1-1005

Port Vlans allowed and active in management domain

Fa0/1 1,2

S2#show interface trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	2

Port Vlans allowed on trunk

Fa0/1 1-1005

Port Vlans allowed and active in management domain

Fa0/1 1,2

A frame on vlan 1 on switch s1 is sent to switch s2 when the frame is received on vlan 2, what causes this behavior?

- A. trunk mode mismatches
- B. vlans that do not correspond to a unique IP subnet
- C. native vlan mismatches
- D. allowing only vlan 2 on the destination.

Correct Answer: C

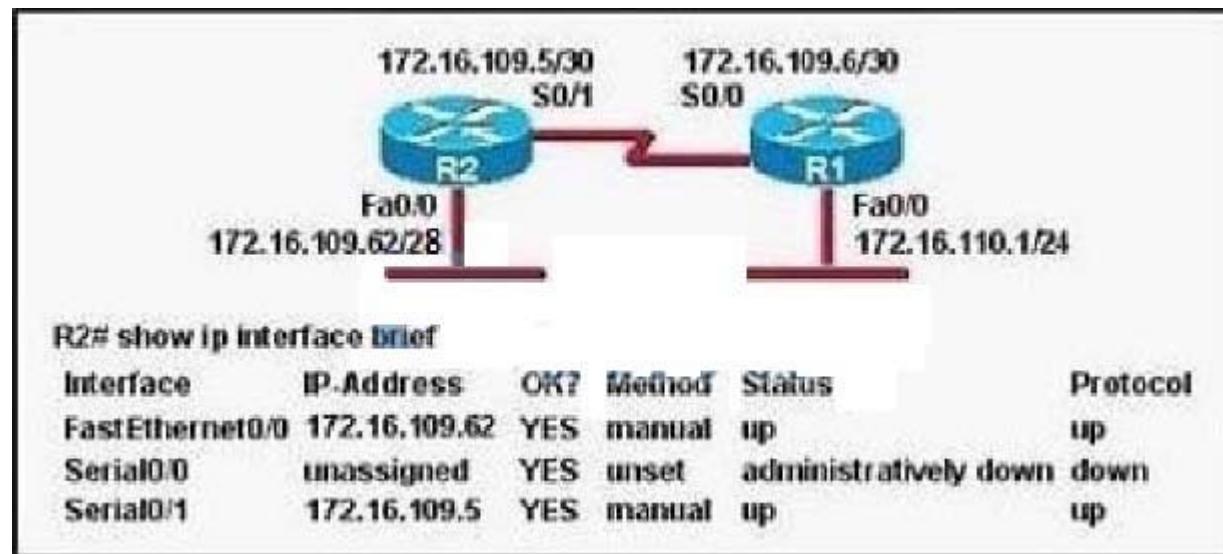
Section: (none)

Explanation

Explanation/Reference:

QUESTION 339

Refer to the exhibit.



Assuming that the entire network topology is shown, what is the operational status of the interfaces of R2 as indicated by the command output shown?

- A. One interface has a problem.
- B. Two interfaces have problems.
- C. The interfaces are functioning correctly.
- D. The operational status of the interfaces cannot be determined from the output shown.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 340

Why will a switch never learn a broadcast address?

- A. Broadcast frames are never sent to switches.
- B. Broadcast addresses use an incorrect format for the switching table.
- C. A broadcast address will never be the source address of a frame.
- D. Broadcasts only use network layer addressing.
- E. A broadcast frame is never forwarded by a switch.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 341

Which definition of default route is true?

- A. A route that is manually configured.
- B. A route used when a destination route is missing.
- C. A route to the exact /32 destination address
- D. Dynamic route learned from the server.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 342

Which value must the device send as its username when using CHAP to authenticate with the remote peer site id:17604704 over a PPP link?

- A. The automatically generated user name
- B. The local host name
- C. The user name defined by the administrator
- D. The host name of the remote device.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 343

What can you change to select switch as root bridge?

- A. make lower priority
- B. make higher priority
- C. make lower path cost
- D. make higher path cost

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 344

Refer to exhibit.

```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default, U - per-user static route
      o - ODR, P - periodic downloaded static route

Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C 192.168.12.0/24 is directly connected, FastEthernet0/0
C 192.168.13.0/24 is directly connected, FastEthernet0/1
C 192.168.14.0/24 is directly connected, FastEthernet1/0
192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
O 192.168.10.0/24 [110/2] via 192.168.14.4, 00:02:01, FastEthernet1/0
O 192.168.10.32/27 [110/11] via 192.168.13.3, 00:00:52, FastEthernet0/1
O 192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, FastEthernet1/1
D 192.168.10.1/32 [50/52778] via 192.168.12.2, 00:03:44, FastEthernet0/0
0*E1 0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0
```

What Administrative distance has route to 192.168.10.1 ?

- A. 1
- B. 90
- C. 110
- D. 120

Correct Answer: B

Section: (none)
Explanation

Explanation/Reference:

QUESTION 345

Which statement about IPv6 link-local addresses is true ?

- A. They must be configured on all IPv6 interface
- B. They must be globally unique
- C. They must be manually configured
- D. They are advertised globally on the network

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 346

Which configuration can be used with PAT to allow multiple inside address to be translated to a single outside

address ?

- A. Dynamic Routing
- B. DNS
- C. Preempt
- D. overload

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 347

Which two types of information are held in the MAC address table? (Choose two)

- A. MAC address
- B. soure IP address
- C. destination IP address
- D. Protocols
- E. Port numbers

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 348

Which command can you enter to create a NAT pool of 6 addresses?

- A. Router(config)#ip nat pool test 175.17.12.69 175.17.12.74 prefix-length 24
- B. Router(config)#ip nat pool test 175.17.12.69 175.17.13.74 prefix-length 16
- C. Router(config)#ip nat pool test 175.17.12.66 175.17.12.72 prefix-length 8
- D. Router(config)#ip nat pool test 175.17.12.69 175.17.12.76 prefix-length 8

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 349

Which header field is new on IPv6?

- A. Version
- B. Hop Limit
- C. Flow Label
- D. Traffic Class

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:

QUESTION 350

Which value is used to determine the active router in an HSRP default configuration?

- A. Router loopback address
- B. Router IP address
- C. Router priority
- D. Router tracking number

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 351

Which three are valid modes for a switch port used as a VLAN trunk? (Choose three)

- A. Desirable
- B. Auto
- C. On
- D. Blocking
- E. Transparent
- F. Forwarding

Correct Answer: ABC

Section: (none)
Explanation

Explanation/Reference:

QUESTION 352

Which value must you configure on a device before EIGRP for IPv6 can start running?

- A. public IP address
- B. loopback interface
- C. router ID
- D. process ID

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:

QUESTION 353

Which type of attack can be mitigated by configuring the default native VLAN to be unused?

- A. CAM table overflow
- B. switch spoofing
- C. VLAN hopping
- D. MAC spoofing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 354

Refer to the exhibit.

```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default, U - per-user static route
      o - ODR, P - periodic downloaded static route

Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C  192.168.12.0/24 is directly connected, FastEthernet0/0
C  192.168.13.0/24 is directly connected, FastEthernet0/1
C  192.168.14.0/24 is directly connected, FastEthernet1/0
192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
O   192.168.10.0/24 [110/2] via 192.168.14.4, 00:02:01, FastEthernet1/0
O   192.168.10.32/27 [110/11] via 192.168.13.3, 00:00:52, FastEthernet0/1
O   192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, FastEthernet1/1
D   192.168.10.1/32 [90/52778] via 192.168.12.2, 00:03:44, FastEthernet0/0
*0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0
```

If R1 sends traffic to 192.168.10.45 the traffic is sent through which interface?

- A. FastEthernet0/1
- B. FastEthernet0/0
- C. FastEthernet1/0
- D. FastEthernet1/1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 355

Which option describes a difference between EIGRP for IPv4 and IPv6?

- A. Only EIGRP for IPv6 advertises all connected networks.
- B. Only EIGRP for IPv6 requires a router ID to be configured under the routing process-
- C. Only EIGRP for IPv6 requires a router ID to be configured under the routing process-
- D. Only EIGRP for IPv6 is enabled in the global configuration mode.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 356

Which option describes the purpose of traffic policing?

- A. It prioritizes routing protocol traffic.
- B. It remarks traffic that is below the CIR
- C. It drops traffic that exceeds the CIR.
- D. It queues and then transmits traffic that exceeds the CIR.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 357

Which process is associated with spanning-tree convergence?

- A. determining the path cost
- B. electing designated ports
- C. learning the sender bridge ID
- D. assigning the port ID

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 358

What is a difference between TACACS+ and RADIUS in AAA?

- A. Only TACACS+ allows for separate authentication.
- B. Only RADIUS encrypts the entire access-request packet.
- C. Only RADIUS uses TCP
- D. Only TACACS+ couples authentication and authorization.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 359

Which option is a benefit of switch stacking?

- A. It provides redundancy with no impact on resource usage

- B. It simplifies adding and removing hosts.
- C. It supports better performance of high-needs applications.
- D. It provides higher port density with better resource usage.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 360

Which port state is introduced by Rapid-PVST?

- A. learning
- B. listening
- C. discarding
- D. forwarding

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 361

What are the possible trunking modes for a switch port? (Choose three.)

- A. transparent
- B. auto
- C. on
- D. desirable
- E. client
- F. forwarding

Correct Answer: BCD

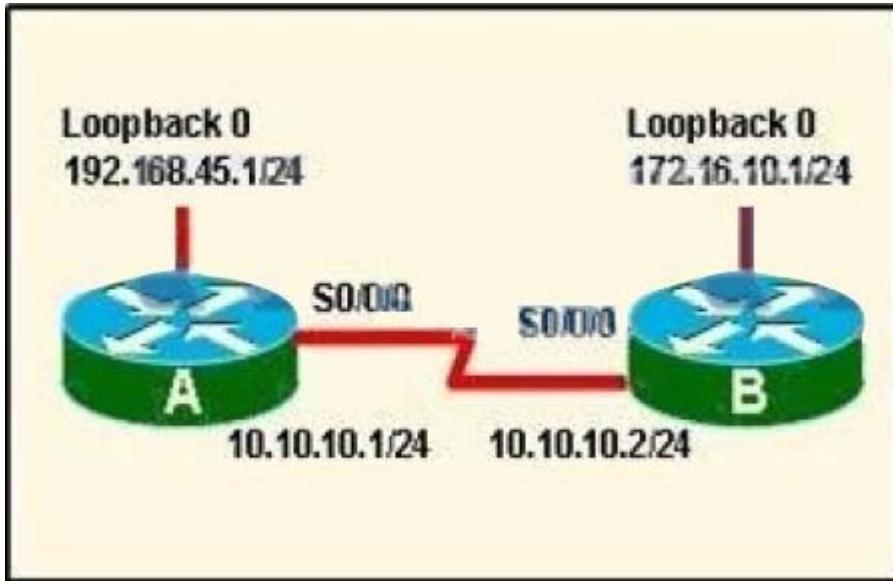
Section: (none)

Explanation

Explanation/Reference:

QUESTION 362

Refer to the exhibit.



When running OSPF, What would cause router A not to form an adjacency with router B?

- A. The loopback addresses are on different subnets.
- B. The value of the dead timers on the router are different.
- C. Route summarization is enabled on both routers.
- D. The process identifier on router A is different than the process identifier on router B.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 363

What command instructs the device to timestamp Syslog debug messages in milliseconds?

- A. service timestamps log datetime localtime
- B. service timestamps debug datetime msec
- C. service timestamps debug datetime localtime
- D. service timestamps log datetime msec

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 364

Refer to the exhibit.

```

FastEthernet0/3:
Port state      = 1
Channel group   = 2           Mode = Passive
Port-channel    = Po2          GC  = -
Port index      = 0           Load = 0x00
                                         Gcchange = -
                                         Pseudo port-channel = Po2
                                         Protocol = LACP

```

What set of commands was configured on interface Fa0/3 to produce the given the output?

- A. interface FastEthernet 0/3
 Channel-group 1 mode desirable
 Switchport trunk encapsulation dot1q
 Switchport mode trunk
- B. interface FastEthernet 0/3
 Channel-group 2 mode passive
 Switchport trunk encapsulation dot1q
 Switchport mode trunk
- C. interface FastEthernet 0/3
 Channel-group 2 mode on
 Switchport trunk encapsulation dot1q
 Switchport mode trunk
- D. interface FastEthernet 0/3
 Channel-group 2 mode active
 Switchport trunk encapsulation dot1q
 Switchport mode trunk

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 365

DRAG DROP

Drag the cable type on the left to the purpose for which it is best suited on the right. (Not all options are used.)

Drag the cable type on the left to the purpose for which it is best suited on the right. (Not all options are used.)	
crossover	switch access port to router
null modem	switch to switch
straight-through	PC COM port to switch
rollover	
9-25 pin serial	

A.

- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Drag the cable type on the left to the purpose for which it is best suited on the right. (Not all options are used.)

crossover	straight-through
null modem	crossover
straight-through	rollover
rollover	
9-25 pin serial	

QUESTION 366

DRAG DROP

Drag each category on the left to its corresponding router output line on the right. Each router output line is the result of a show ip interface command. Not all categories are used.

Drag each category on the left to its corresponding router output line on the right. Each router output line is the result of a **show ip interface** command. Not all categories are used.

Layer 1 problem	Serial0/1 is up, line protocol is up
Layer 2 problem	Serial0/1 is up, line protocol is down
Layer 3 problem	Serial0/1 is down, line protocol is down
port operational	Serial0/1 is administratively down, line protocol is down
port disabled	

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Drag each category on the left to its corresponding router output line on the right. Each router output line is the result of a `show ip interface` command. Not all categories are used.

Layer 1 problem	port operational
Layer 2 problem	Layer 2 problem
Layer 3 problem	Layer 1 problem
port operational	port disabled
port disabled	

QUESTION 367

DRAG DROP

A user is unable to connect to the Internet. Based on the layered approach to troubleshooting and beginning with the lowest layer, drag each procedure on the left to its proper category on the right.

verify URL	Step 1
verify NIC operation	Step 2
verify IP configuration	Step 3
verify Ethernet cable connection	Step 4

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

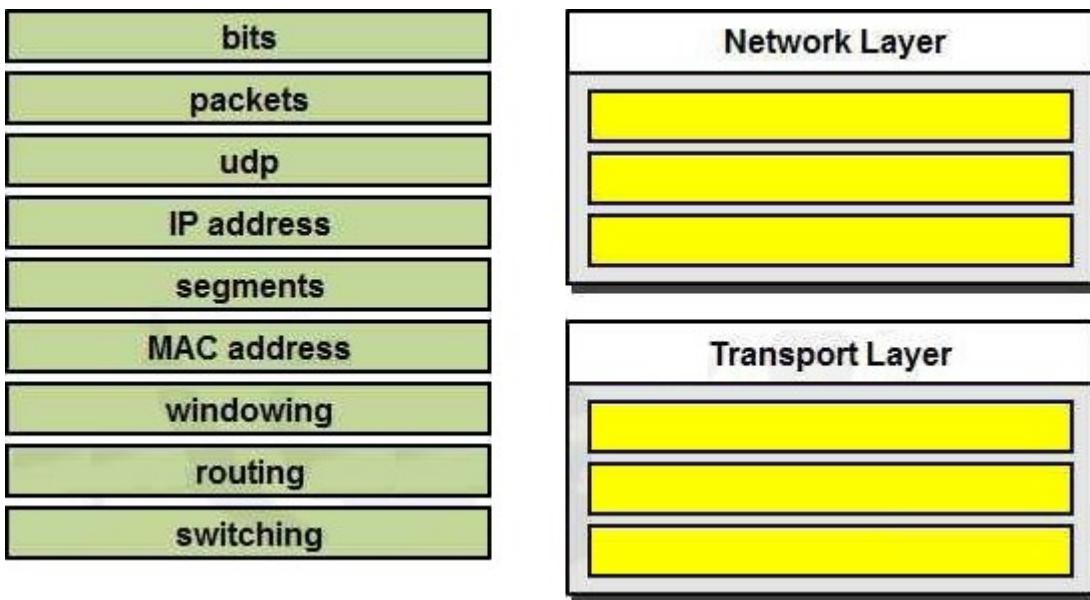
Explanation/Reference:

A user is unable to connect to the Internet. Based on the layered approach to troubleshooting and beginning with the lowest layer, drag each procedure on the left to its proper category on the right.

verify URL	verify Ethernet cable connection
verify NIC operation	verify NIC operation
verify IP configuration	verify IP configuration
verify Ethernet cable connection	verify URL

QUESTION 368

Match the items on the left with appropriate OSI layer on the right. (Not all options are used.)



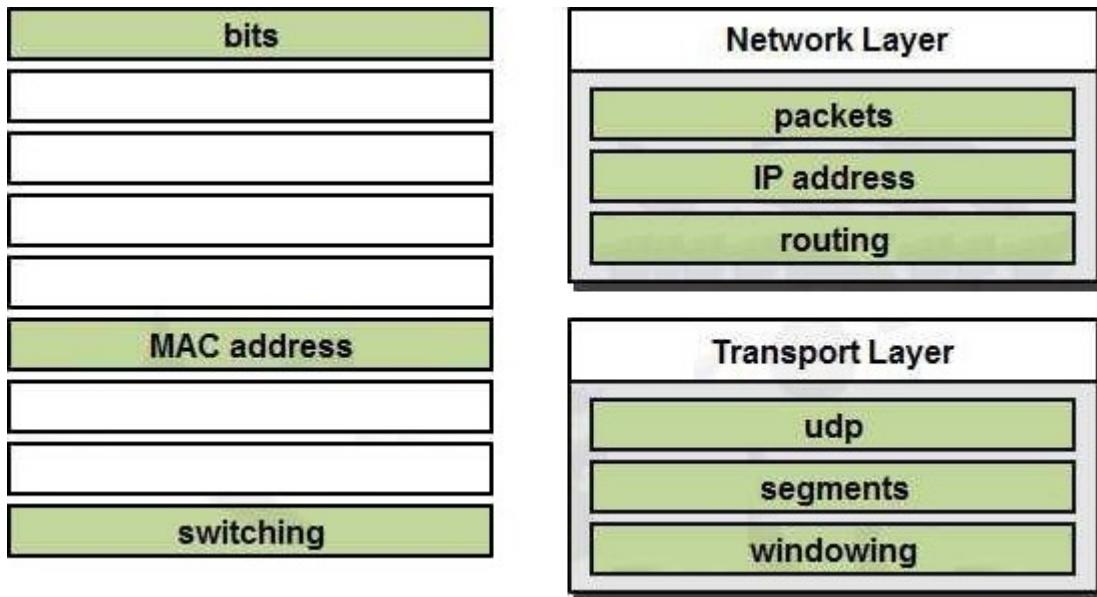
- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



QUESTION 369

Drag and drop the correct address space on the left to the IPv6 multicast feature or protocol on the right.

FF02::5	All nodes of Link Local
FF02::A	All EIGRPv3 Routers
FF02::D	All OSPFv3 Designated Routers
FF02::1	All PIM routers
FF05::2	All OSPFv3 Routers
FF02::6	All Routers of site local

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Drag and drop the correct address space on the left to the IPv6 multicast feature or protocol on the right.

FF02::5	FF02::1
FF02::A	FF02::A
FF02::D	FF02::6
FF02::1	FF02::D
FF05::2	FF02::5
FF02::6	FF05::2

QUESTION 370

ACL-3

Question

A corporation wants to add security to its network.

The requirements are:

- Host B should be able to use a web browser (HTTP) to access the Finance Web Server. · Other types of access from host B to the Finance Web Server should be blocked.
 - All access from hosts in the Core or local LAN to the Finance Web Server should be blocked.
 - All hosts in the Core and on local LAN should be able to access the Public Web Server.
- You have been tasked to create and apply a numbered access list to a single outbound interface. They can contain no more than three statements that meets these requirements. Access to the router CLI can be gained by clicking on the appropriate host.

All passwords have been temporarily set to "cisco".

The Core connection uses an IP address of 198.18.196.65 Corp1 Router's port S's IP need to be showed if it is right when taking the test; if it is not right, IP needs to be corrected. The computers in the Hosts LAN have been assigned addresses of 192.168.33.1 - 192.168.33.254 Host A 192.168.33.1

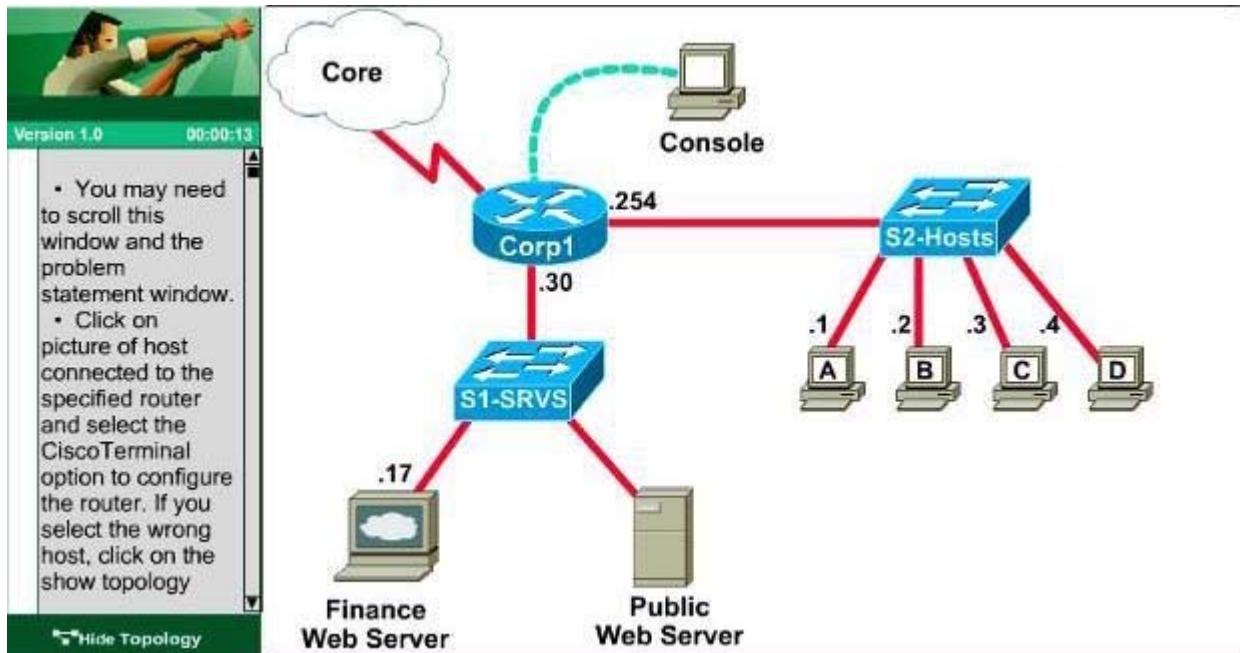
Host B 192.168.33.2

Host C 192.168.33.3

Host D 192.168.33.4

The servers in the Server LAN have been assigned addresses of 172.22.242.17 - 172.22.242.30

The Finance Web Server is assigned an IP address of 172.22.242.23.



- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Corp1 router's port S's IP needs to be showed if it is right when taking the test; if it is not right, which needs to be modified; modify the IP command

Corp1 # configure terminal

Corp1 (config) #int s1 / 0 (the specific port number, you need to show run by yourself) Corp1 (config-if) #ip add 198.18.196.65 255.255.255.252 (ip is modified to the one in the item, the mask is used the one which using show run to get the original error IP's mask) Corp1 (config-if) #end

Here, you cannot need to delete the wrong IP address, you can directly enter the new IP to cover the old IP, and finally do not forget to save.

92 / 105

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Corp1 # show running-config

```

Corp1# show running-config
<output omitted>
!
interface FastEthernet0/0
 ip address 192.168.33.254 255.255.255.0
 duplex auto
 speed auto
!
Interface FastEthernet0/1
ip address 172.22.242.30 255.255.255.240
duplex auto
speed auto
!
<output omitted>
```

Make sure that the interface connecting the server is F0/1 Corp1#configure terminal

```

Corp1(config)#access-list 100 permit tcp host 192.168.33.3 host 172.22.242.23 eq 80 Corp1(config)#access-
list 100 deny ip any host 172.22.242.23 Corp1(config)#access-list 100 permit ip any any
Corp1(config)#interface fa0/1
Corp1(config-if)#ip access-group 100 out
Corp1(config-if)#end
Corp1#copy running-config startup-config
```

Explanation of Command:

1. Corp1 (config) # access-list 100 permit tcp host 192.168.33.3 host 172.22.242.23 eq 80

Create an extension list that allows TCP traffic from source host IP: 192.168.33.3 to destination host IP: 172.22.242.23's port 80. Eq means it is equal to the port number. There is no need to tangle the expansion list using the number 100 or 128, as long as it is in the 100-199 range, it can be used.

2. Corp1 (config) # access-list 100 deny ip any host 172.22.242.23

Create an extended list that disables all traffic from all source hosts access the destination host IP: 172.22.242.23. IP refers to all protocols.

3. Corp1 (config) # access-list 100 permit ip any any

Create an extended list that allows IP traffic from all source hosts to all destination hosts.

4. Corp1 # show running-config

Show run is to find .30's IP is in which interface; the figure given .30, as long as show run to find the interface of the IP .30 is OK and then apply the ACL list to the interface.

5. Corp1 (config) #interface fa0 / 1

Corp1 (config-if) #ip access-group 100 out

The last is the two commands, the above show run has found out .30's IP is 172.22.242.30, is in the f0/1

93 / 105

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interface. Directly enter into the port F0/1 and apply the created extension list, and finally remember Copy run Start.

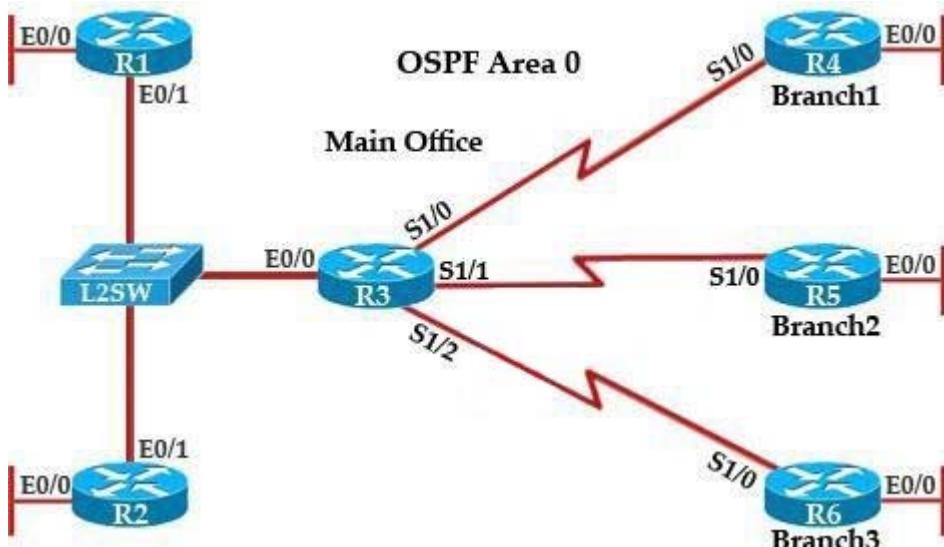
When taking the test, lab questions will change the IP address and the host, it may change the host C into the host B. Besides, the IP address will be also changed, the command involved in the test will not be changed.

QUESTION 371

OSPF Neighbor

Question

Refer to the topology.



Your company has decided to connect the main office with three other remote branch offices using point-to-point serial links. You are required to troubleshoot and resolve OSPF neighbor adjacency issues between the main office and the routers located in the remote branch offices.

An OSPF neighbor adjacency is not formed between R3 in the main office and R4 in the Branch1 office. What is causing the problem?

- A. There is an area ID mismatch.
- B. There is a Layer 2 issue; an encapsulation mismatch on serial links.
- C. There is an OSPF hello and dead interval mismatch.
- D. The R3 router ID is configured on R4.

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 372**

An OSPF neighbor adjacency is not formed between R3 in the main office and R5 in the Branch2 office. What is causing the problem?

- A. There is an area ID mismatch.
- B. There is a PPP authentication issue; a password mismatch.
- C. There is an OSPF hello and dead interval mismatch.
- D. There is a missing network command in the OSPF process on R5.

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

Explanation/Reference:

QUESTION 373

R1 does not form an OSPF neighbor adjacency with R2.

Which option would fix the issue?

- A. R1 ethernet0/1 is shutdown. Configure no shutdown command.
- B. R1 ethernet0/1 configured with a non-default OSPF hello interval of 25; configure no ip ospf hello-interval 25
- C. R2 ethernet0/1 and R3 ethernet0/0 are configured with a non-default OSPF hello interval of 25; configure no ip ospf hello-interval 25
- D. Enable OSPF for R1 ethernet0/1; configure ip ospf 1 area 0 command under ethernet0/1

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 374

An OSPF neighbor adjacency is not formed between R3 in the main office and R6 in the Branch3 office.

What is causing the problem?

- A. There is an area ID mismatch.
- B. There is a PPP authentication issue; the username is not configured on R3 and R6.
- C. There is an OSPF hello and dead interval mismatch.
- D. The R3 router ID is configured on R6.

Correct Answer: D

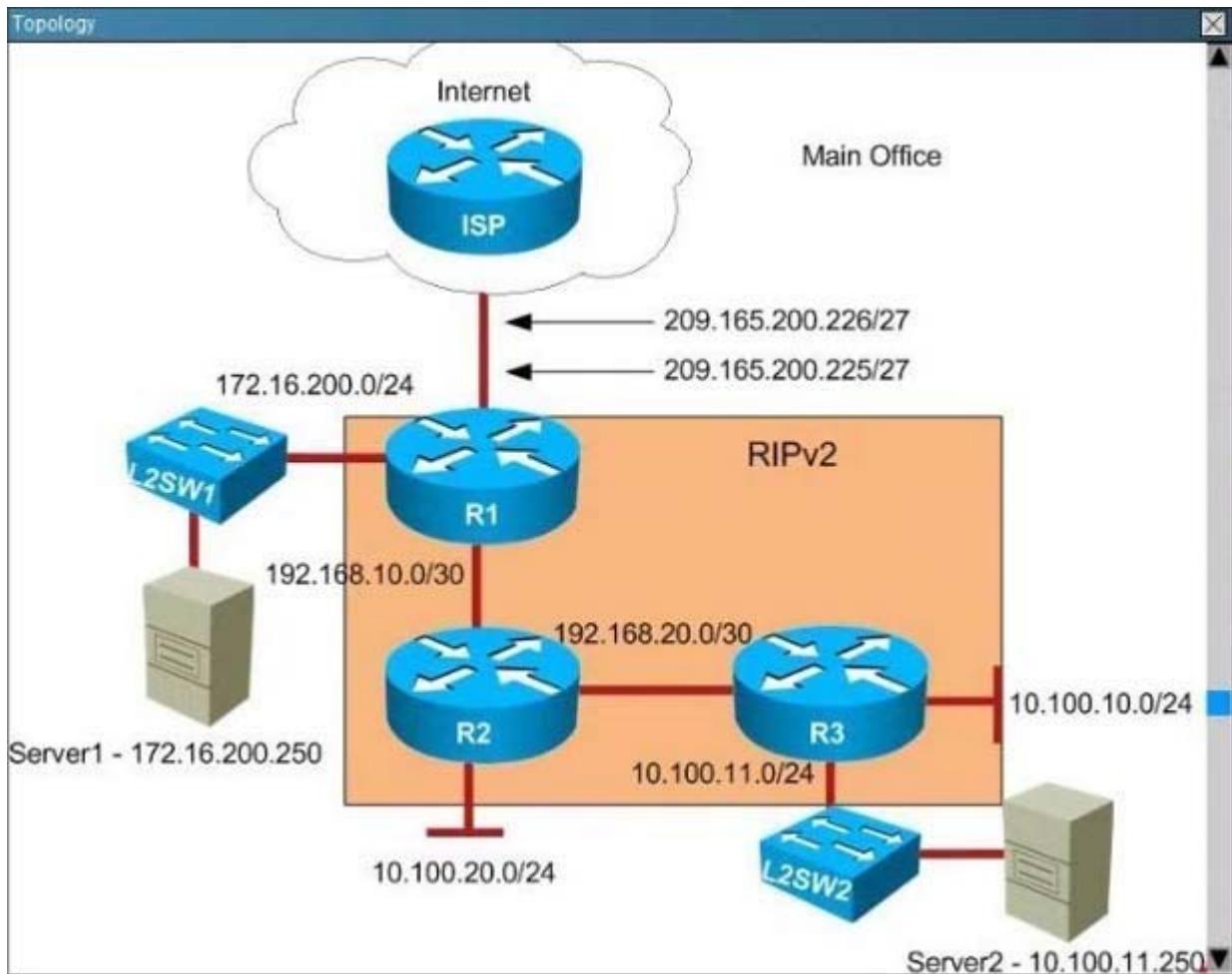
Section: (none)

Explanation

Explanation/Reference:

QUESTION 375

DHCP



Examine the DHCP configuration between R2 and R3, R2 is configured as the DHCP server and R3 as the client.

What is the reason R3 is not receiving the IP address via DHCP?

- A. On R3, DHCP is not enabled on the interface that is connected to R2.
- B. On R3, the interface that is connected to R2 is in shutdown condition.
- C. On R2, the interface that is connected to R3 is in shutdown condition.
- D. On R2, the network statement in the DHCP pool configuration is incorrectly configured

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Please check the below:

Explanation/show commands:

```
R2
no mmi pvc
mmi snmp-timeout 180
!
```

```
!
ip dhcp excluded-address
192.168.20.1
!
ip dhcp pool DHCPASSIGNR3
network 192.168.20.0 255.255.255.252
!
ip cef
no ipv6 cef
!
multilink bundle-name
authenticated
!
```

```
R3
!
!
interface Loopback0
ip address 192.168.250.3 255.255.255.255
!
interface Ethernet0/0
description ***Link to LAN***
ip address 10.100.10.1 255.255.255.0
!
Interface Ethernet0/1
description ***Link to R2***
no ip address
!
interface Ethernet0/2
description ***Link to Server2 Segment***
ip address 10.100.11.1 255.255.255.0
!
interface Ethernet0/3
no ip address
```

QUESTION 376

R1 router clock is synchronized with ISP router. R2 is supposed to receive NTP updates from R1. But you observe that R2 clock is not synchronized with R1. What is the reason R2 is not receiving NTP updates from R1?

- A. R1 router Ethernet interface that is connected to R2 is placed in shutdown condition.
- B. R2 router Ethernet interface that is connected to R1 is placed in shutdown condition.
- C. The NTP server command not configured on R2 router.
- D. The IP address that is used in the NTP configuration on R2 router is incorrect.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Check the below configuration for this

Explanation/show commands:

R2 deny 172.16.200.0 0.0.0.255 permit any ! ! ! control-plane ! ! ! ! ! ! line con 0 logging synchronous line aux 0 line vty 0 4 login transport input all ! ntp server 192.168.100.1 ! end R2#	R1 no ip address shutdown ! router rip version 2 network 172.16.0.0 network 192.168.10.0 network 192.168.250.0 default-information originate no auto-summary ! ip forward-protocol nd ! ! no ip http server no nat inside source list LOCAL interface Ethernet0 ip route 0.0.0.0 0.0.0.0 209.165.200.226 ! ip access-list standard LOCAL permit 10.0.0.0 0.255.255.255 permit 172.16.0.0 0.0.255.255 permit 192.168.0.0 0.0.255.255 ! !
--	--

QUESTION 377

Why applications that are installed on PCs in R2 LAN network 10.100.20.0/24 are unable to communicate with server1?

- A. A standard ACL statement that is configured on R1 is blocking the traffic sourced from R2 LAN network.
- B. A standard ACL statement that is configured on R1 is blocking the traffic sourced from Server1 network.
- C. A standard ACL statement that is configured on R2 is blocking the traffic sourced from Server1 network.
- D. A standard ACL statement that is configured on R2 is blocking the traffic sourced from R2 LAN network.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Check the below now:

<pre>R2 ! ip access-list standard SERVER1BLOCK deny 172.16.200.0 0.0.0.255 permit any !</pre>	<pre>R2 ! ! ! interface Loopback0 ip address 192.168.250.2 255.255.255.255 ! interface Ethernet0/0 description ***Link to R3*** ip address 192.168.20.1 255.255.255.255 ! interface Ethernet0/1 no ip address ! interface Ethernet0/2 description ***Link to R1*** ip address 192.168.10.2 255.255.255.252 ip access-group SERVER1BLOCK in !</pre>
---	--

QUESTION 378

Users complain that they are unable to reach internet sites. You are troubleshooting internet connectivity problem at main office.

Which statement correctly identifies the problem on Router R1?

- A. NAT configurations on the interfaces are incorrectly configured.
- B. NAT translation statement incorrectly configured.
- C. Interesting traffic for NAT ACL is incorrectly configured.
- D. Only static NAT translation configured from the server, missing Dynamic NAT or Dynamic NAT overloading for internal networks.

Correct Answer: A

Section: (none)

Explanation

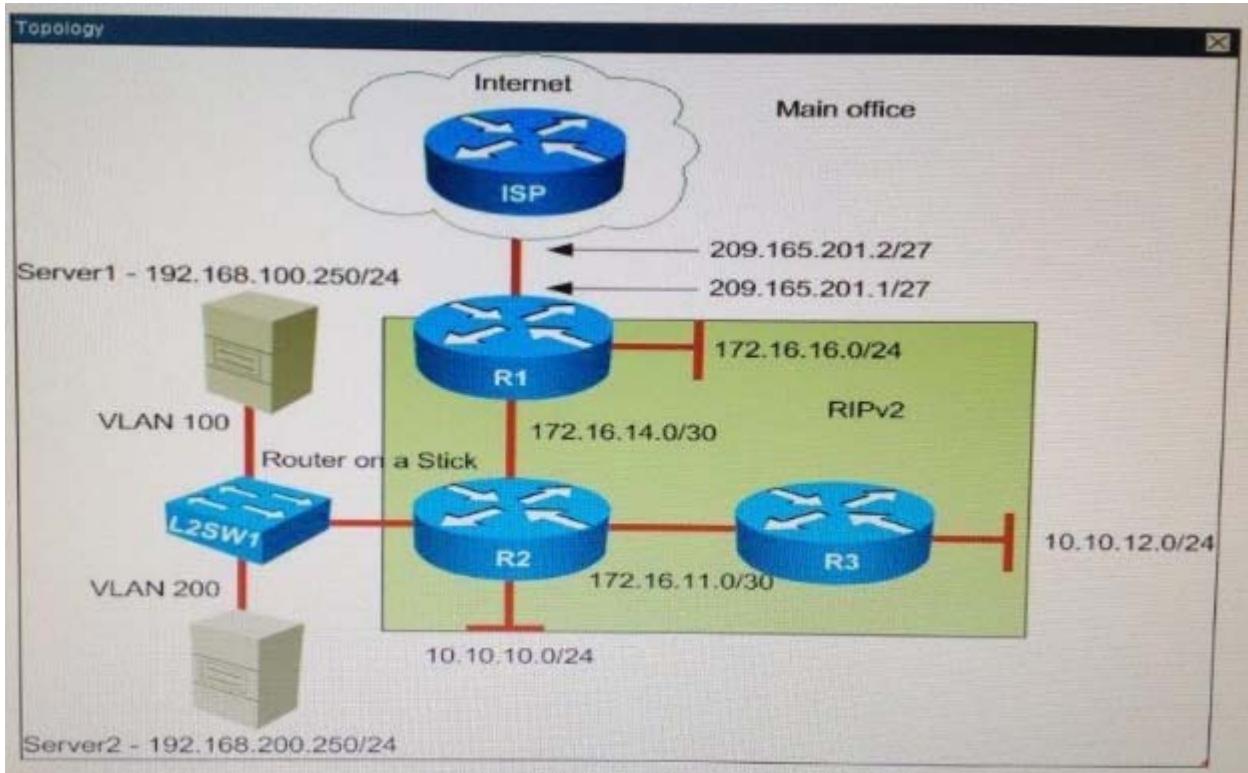
Explanation/Reference:

Explanation:

```

R1
!
!
!
!
interface Loopback0
ip address 192.168.250.1 255.255.255.255
!
interface Ethernet0/0
description ***Link to ISP***
ip address 209.165.200.225 255.255.255.224
ip nat inside
ip virtual-reassembly in
!
interface Ethernet0/1
description ***Link to Server1 segment***
ip address 172.16.200.1 255.255.255.0
ip nat outside
ip virtual-reassembly in
!
interface Ethernet0/2
description ***Link to R2***
ip address 192.168.10.1 255.255.255.252
ip nat outside
ip virtual-reassembly in
!
```

QUESTION 379 RIPV2



- Router R1 connects the main office to internet, and routers R2 and R3 are internal routers
 - NAT is enabled on Router R1
 - The routing protocol that is enabled between R1, R2 and R3 is RIPv2
 - R1 sends default route into RIPv2 for internal routers to forward internet traffic to R1
 - Server1 and Server 2 are placed in VLAN 100 and 200 respectively, and are still running on stick Configuration with router R2.
- You have console access on R1, R2, R3 and L2SW1 devices.
Use only show commands to troubleshoot the issues.

Server1 and Server2 are unable to communicate with the rest of the network. Your initial check with system administrators shows that IP address settings are correctly configured on the server side.
What could be an issue?

- The VLAN encapsulation is misconfigured on the router subinterfaces.
- The Router is missing subinterface configuration.
- The Trunk is not configured on the L2SW1 switch.
- The IP address is misconfigured on the primary router interface.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

```
R2
!
interface Ethernet0/1.100
description ***Link to Server1 Segment***
encapsulation dot1Q 200
ip address 192.168.100.1 255.255.255.0
!
interface Ethernet0/1.200
description ***Link to Server2 Segment***
encapsulation dot1Q 100
ip address 192.168.200.1 255.255.255.0
!
```

QUESTION 380

Users in the main office complain that they are unable to reach internet sites. You observe that internet traffic that is destined towards ISP router is not forwarded correctly on Router R1.

What could be an issue?

Ping to Internet server shows the following results from R1:

R1#ping 209.165.200.225

Type escape sequence to abort.

Sending 5,100-byte ICMP Echos to 209.165.200.225, timeout is 2 seconds:

.....

Success rate is 0 percent (0/5)

- The next hop router address for the default route is incorrectly configured.
- Default route pointing to ISP router is not configured on Router R1.
- Default route pointing to ISP router is configured with AD of 225.
- Router R1 configured as DHCP client is not receiving default route via DHCP from ISP router.

Correct Answer: B

Section: (none)**Explanation****Explanation/Reference:**

Explanation:

(Default Static Route will fix the problem to connect to ISP router)

Explanation/show command:

```

172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks
R      172.16.11.0/30 [ 120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
C      172.16.14.0/30 is directly connected, Ethernet0/2
L      172.16.14.1/32 is directly connected, Ethernet0/2
C      172.16.16.0/24 is directly connected, Ethernet0/1
L      172.16.16.1/32 is directly connected, Ethernet0/1
R      192.168.1.0/24 [ 120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
R      192.168.100.0/24 [ 120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
R      192.168.200.0/24 [ 120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
      209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks
C      209.165.201.0/27 is directly connected, Ethernet0/0
L      209.165.201.1/32 is directly connected, Ethernet0/0
R1#

```

R1

```

interface Ethernet0/2
description ***Link to R2***
ip address 172.16.14.1 255.255.255.252
ip nat inside
ip virtual-reassembly in
!
interface Ethernet0/3
no ip address
shutdown
!
router rip
version 2
network 172.16.0.0
default-information originate
no auto-summary
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
ip nat inside source list LOCAL interface Ethernet0/0 overload
ip route 10.10.10.0 255.255.255.0 172.16.14.2 200

```

QUESTION 381

Examine R2 configuration, the traffic that is destined to R3 LAN network sourced from Router R2 is forwarded to R1 instead R3.

What could be an issue?

R2#traceroute 10.10.12.1 source 10.10.10.1

Type escape sequence to abort.

Tracing the route to 10.10.12.1

VRF info: (vrf in name/id, vrf out name/id)

1 172.16.14.10 msec 1 msec 0 msec

2 172.16.14.1! H! H *

R2#

- A. RIPv2 enabled on R3, but R3 LAN network that is not advertised into RIPv2 domain.
- B. RIPv2 routing updates are suppressed between R2 and R3 using passive interface feature.
- C. RIPv2 not enabled on R3.
- D. No issue that is identified; this behavior is normal since default route propagated into RIPv2 domain by Router R1.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

```
R3
interface Ethernet0/3
no ip address
shutdown
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
!
!
!
control-lane
!
!
!
!
line con 0
logging synchronous
line aux 0
```

NO RIPv2 CONFIG!

QUESTION 382

What is the correct statement below after examining the R1 routing table?

- A. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses static route instead RIPv2 Because the static route AD that is configured is less than the AD of RIPv2
- B. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses RIPv2 instead static route Because the static route AD that is configured is higher than the AD of RIPv2
- C. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses static route instead RIPv2 But the traffic is forwarded to the ISP instead of the internal network.
- D. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses RIPv2 instead static route Because the static route AD that is configured is 255

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Configuration are below for the answer.

```
R1
!
ip route 10.10.10.0 255.255.255.0 172.16.14.2 200
!
```

QUESTION 383

EIGRP TS

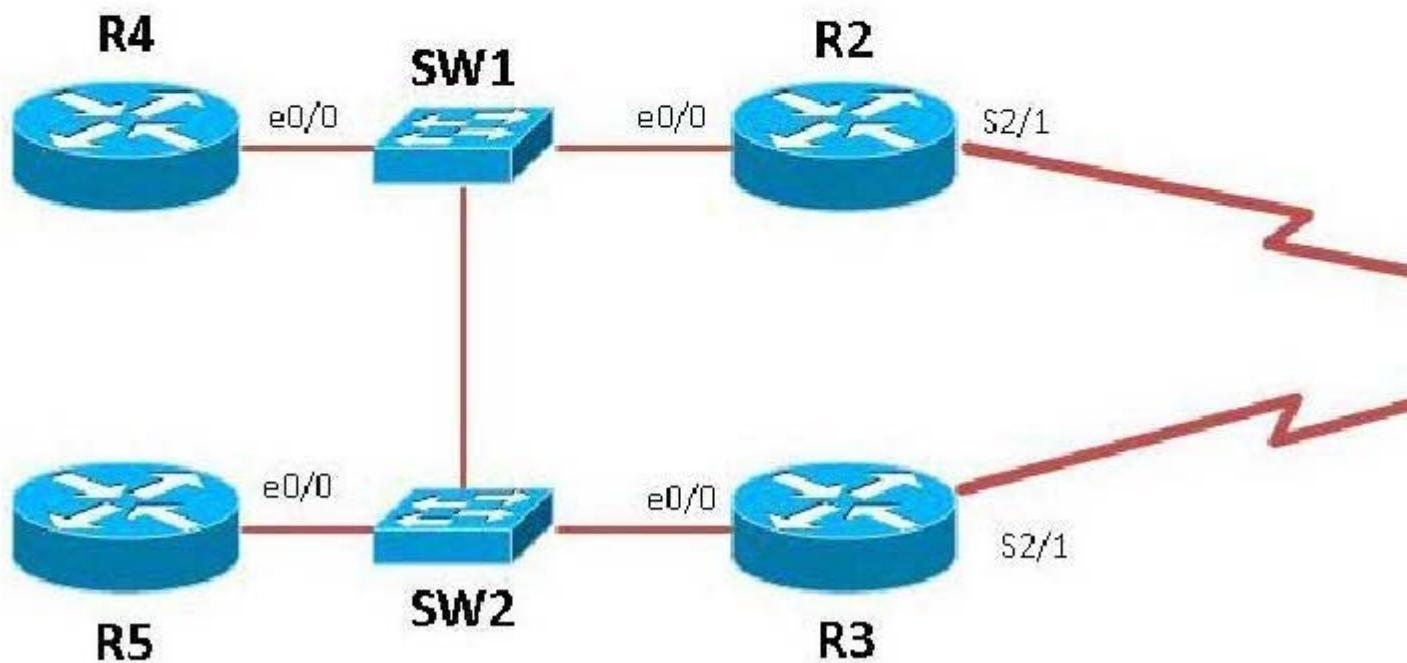
Question

Refer to the topology. Your company has connected the routers R1, R2 and R3 with serial links. R2 and R3 are connected to the switches SW1 and SW2, respectively. SW1 and SW2 are also connected to the routers R4 and R5.

102 / 105

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The EIGRP routing protocol is configured. You are required to troubleshoot and resolve the EIGRP issues between the various routers. Use the appropriate show commands to troubleshoot the issues.

EIGRP AS 1

The loopback interfaces on R4 with the IP addresses of 10.4.4.4/32, 10.4.4.5/32 and 10.4.4.6/32 are not appearing in the routing table of R5.

Why are the interfaces missing?

- A. The interfaces are shutdown, so they are not being advertised.
- B. R4 has been incorrectly configured to be in another AS, so it does not peer with R5.
- C. Automatic summarization is enabled, so only the 10.0.0.0 network is displayed.
- D. The loopback addresses haven't been advertised, and the network command is missing on R4.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

R4

```
!
interface Ethernet0/2
no ip address
shutdown
!
interface Ethernet0/3
no ip address
shutdown
!
!
router eigrp 2
network 10.4.4.4 0.0.0.0
network 10.4.4.5 0.0.0.0
network 10.4.4.6 0.0.0.0
network 192.168.123.0
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
```

--- More (18) ---

R5

```
interface Ethernet0/2
no ip address
shutdown
!
interface Ethernet0/3
no ip address
shutdown
!
!
router eigrp 1
network 10.5.5.5 0.0.0.0
network 10.5.5.55 0.0.0.0
network 10.10.10.0 0.0.0.0
network 192.168.123.0
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
!
!
```

control-plane

QUESTION 384

Which path does traffic take from R1 to R5?

- A. The traffic goes through R2.
- B. The traffic goes through R3.

- C. The traffic is equally load-balanced over R2 and R3.
- D. The traffic is unequally load-balanced over R2 and R3.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 385

Router R6 does not form an EIGRP neighbor relationship correctly with router R1.
What is the cause for this misconfiguration?

- A. The K values mismatch.
- B. The AS does not match.
- C. The network command is missing.
- D. The passive-interface command is enabled.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 386

R1#ping 10.5.5.55 source 10.1.1.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 10.5.5.55, timeout is 2 seconds:

Packet sent with a source address of 10.1.1.1

....

Success rate is 0 percent (0/5)

- A. The network statement is missing on R5.
- B. The loopback interface is shut down on R5.
- C. The network statement is missing on R1.
- D. The IP address that is configured on the Lo1 interface on R5 is
- E. The IP address that is configured on the Lo1 interface on R5 is incorrect.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 387

Drag and drop the correct address space on the left to the IPv6 multicast feature or protocol on the right.

FF02::5	All nodes of Link Local
FF02::A	All EIGRPv3 Routers
FF02::D	All OSPFv3 Designated Routers
FF02::1	All PIM Routers
FF05::2	All OSPFv3 Routers
FF02::6	All Routers of site local

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Drag and drop the correct address space on the left to the IPv6 multicast feature or protocol on the right.

	FF02::1
	FF02::A
	FF02::6
	FF02::D
	FF02::5
	FF05::2

FF01::1 ————— All nodes (node-local)0

FF01::2 ————— All routers (node-local)

FF02::1 ————— All nodes (link-local)

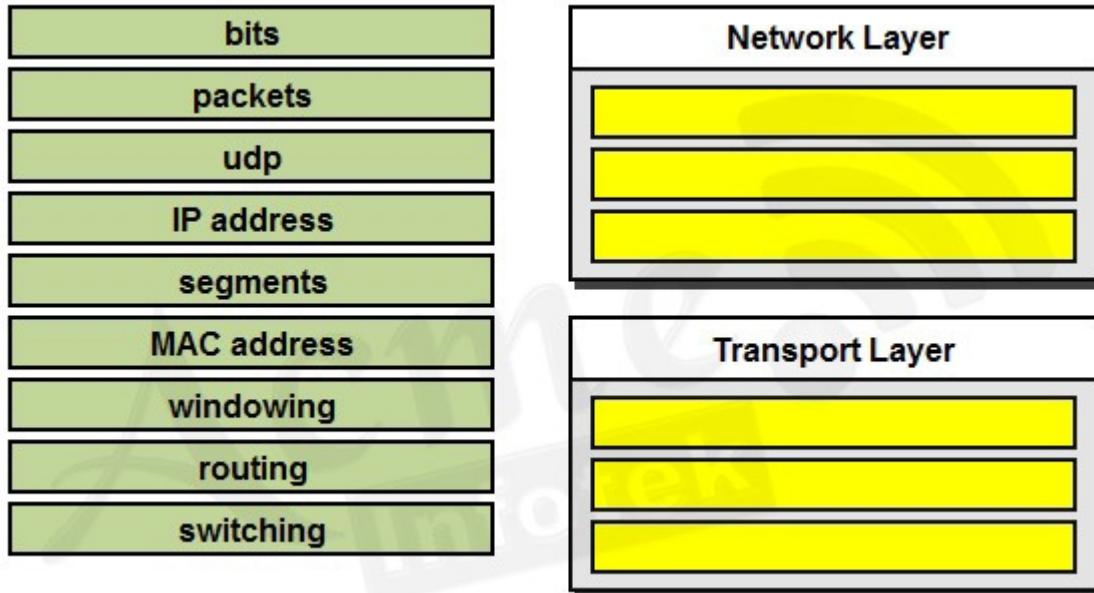
FF02::2 ————— All routers (link-local)

FF02::5 ————— OSPFv3 routers

FF02::6 ————— OSPFv3 designated routers

FF02::9 ————— Routing Information Protocol (RIPng)
 FF02::A ————— EIGRP routers
 FF02::B ————— Mobile agents FF02::C ————— SSDP
 FF02::D ————— All PIM routers FF05::2 ————— All routers (site-local)
 Extra Choice ————— DHCP servers/relay agents (FF05::1:3)

QUESTION 388



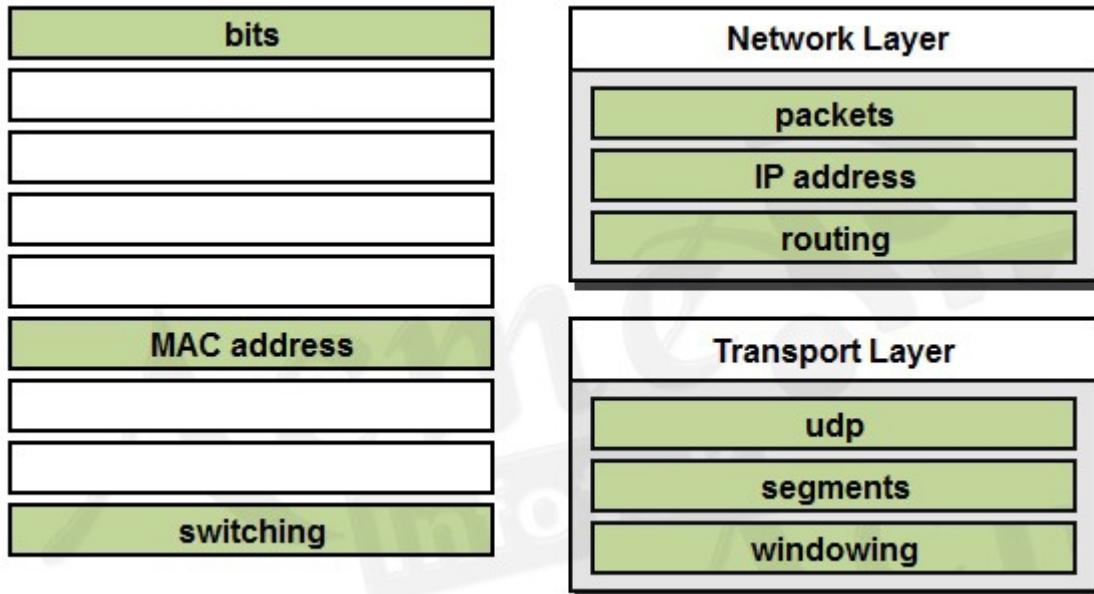
A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



QUESTION 389

DCE/DTE	bbs.hh010.com
crossover	switch access port to
null modem	switch to switch
straight-through	PC COM port to switch
rollover	router serial to router serial
9-25 pin serial	

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



QUESTION 390

A user is unable to connect to the Internet. Based on the layered approach to troubleshooting and beginning with the lowest layer. Follow the guide and drag the content to relevant modules

- | | |
|----------------------------------|--------|
| Verify URL | Step 1 |
| Verify NIC operation | Step 2 |
| Verify IP configuration | Step 3 |
| Verify Ethernet cable connection | Step 4 |

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

A user is unable to connect to the Internet. Based on the layered approach to troubleshooting and beginning with the lowest layer. Follow the guide and drag the content to relevant modules

Verify Ethernet cable connection

Verify NIC operation

Verify IP configuration

Verify URL

QUESTION 391

Drag each category on the left to its corresponding router output line on the right.

Each router output line is in the result of a show ip interface command.

Not all categories are used.

Layer 1 problem

Serial0/1 is up, line protocol is up

Layer 2 problem

Serial0/1 is up, line protocol is down

Layer 3 problem

Serial0/1 is down, line protocol is down

port operational

Serial0/1 is administratively down, line protocol is down

port disabled

A.

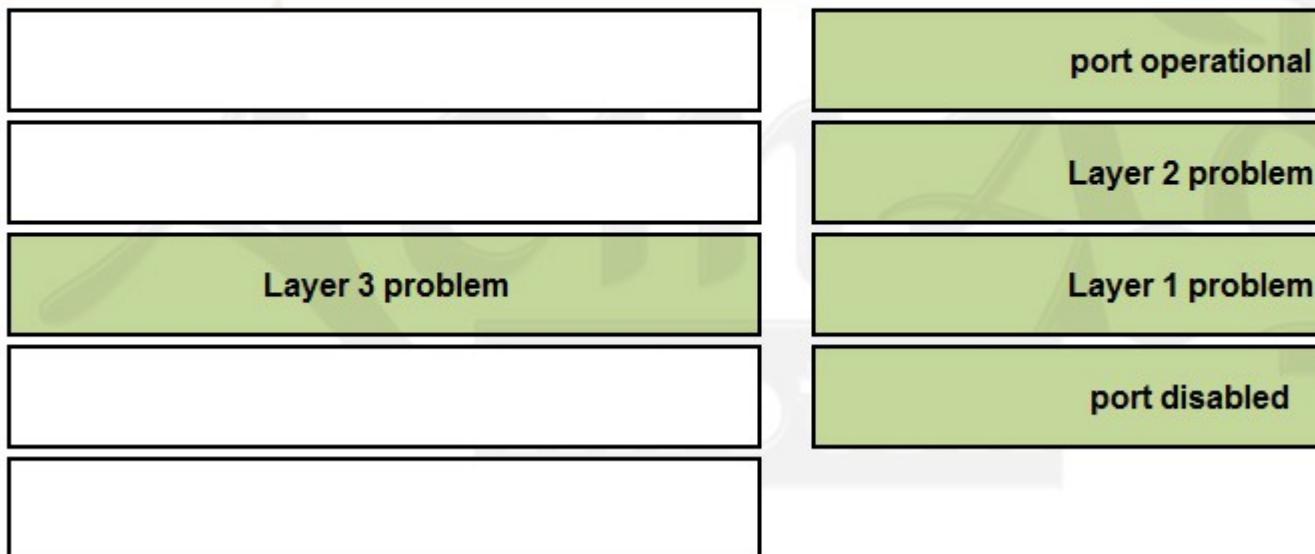
Correct Answer:

Section: (none)

Explanation

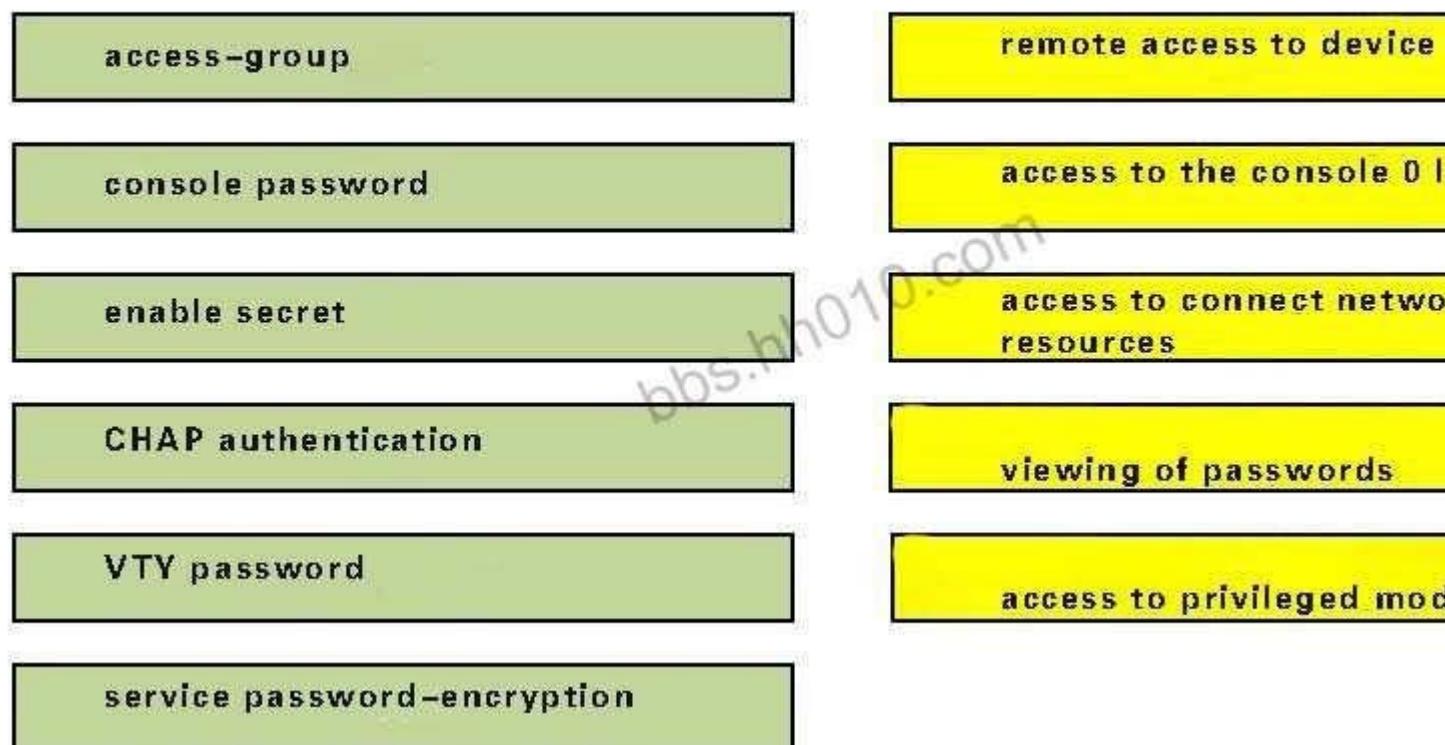
Explanation/Reference:

Drag each category on the left to its corresponding router output line on the right.
Each router output line is in the result of a show ip interface command.
Not all categories are used.



QUESTION 392

Drag the security features on the left to the specific risks they protect against on the right
(not all options are used)



A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Drag the security features on the left to the specific risks they protect against on the right
(not all options are used)

CHAP authentication

VTY password

console password

access-group

service password-encryption

enable secret

QUESTION 393

UDP
combines authentication and authorization
encrypts only the password
Encrypts the entire body
multi-vendors
proprietary
TCP
Separate AAA

Radius
Tacacs +

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Rac

UDP

combines authentication and

encrypts only the payload

multi-vehicle

Tac

Encrypts the entire message

proprietary

TG

Separation

QUESTION 394

- classful
- classless
- support authentication
- Non support authentication
- Updates send in multicast
- Updates send in broadcast
- Non support VLSM
- Support VLSM

RIPV1

-
-
-
-
-
-
-
-

RIPV2

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

RIP

class

Non support

Updates ser

Non suppo

RI

class

support auth

Updates ser

Support VL

QUESTION 395

cache	Local database of address mappings that improves name-resolution performance
DNS	Service that maps hostnames to IP addresses
domain	Disables DNS services on a cisco device
name resolver	In response to client requests, queries a name server for IP address information
no ip domain-lookup	Component of a URL that indicates the location or organization type, such as .com or .edu

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



QUESTION 396

multitenancy	One or more clients can be hosted with the same physical or virtual infrastructure
On-demand	Resources can be added and removed as needed to support current workload and task
resiliency	Task can be migrated to different physical locations to increase efficiency or reduce cost
scalability	Resources are dedicated only when necessary instead of on a permanent basis
Workload movement	Task and data residing on a failed server can be seamlessly migrated to other physical resources

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



QUESTION 397

Accepts incoming connections over vty lines	buffered logging
Display logging information during a terminal session	console
Provides local access to a device	syslog server logging
Stores log messages externally	terminal
Stores log messages in RAM	terminal monitor

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

	Stores log messages in RAM
	Provides local access to a device
	Stores log messages externally
	Accepts incoming connections over vty lines
	Display logging information during a terminal session

QUESTION 398

	Dynamic Routing
Support load balancing with no specific configuration.	
Supports floating routes	
Allows the administrator to manage device individually when needed	
Able to select the best path in response to network changes	
Provides better scalability in a large infrastructure.	
Provides granular control over routing.	

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

	Dynamic Routing
Support load balancing with no specific configuration.	
Able to select the best path in response to network changes	
Provides better scalability in a large infrastructure.	
	Static Routing
Supports floating routes	
Allows the administrator to manage device individually when needed	
Provides granular control over routing.	

QUESTION 399

HTTPS	Call to the APIC-EM API from a library
JSON	Data-structure format that passes parameters for API calls
OpenFlow	Northbound API
RBAC	Southbound API
REST	Token-based security mechanism

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

	RBAC
	JSON
	REST
	OpenFlow
	HTTPS

QUESTION 400

Drag and drop the PPPoE packet type on the left to the corresponding description on the right.

PADR	A packet that is sent with the destination_addr set to the broadcast address. The packet contains information about the type of service requested by the client.
PADT	A packet that is sent with the destination_addr set to the access concentrator. The packet contains an offer from the access concentrator to the client.
PADO	A packet that is sent from the PPPoE client with the destination_addr set to the access concentrator. The packet contains a session request from the client to the access concentrator.
PADI	A packet that is sent as confirmation from the access concentrator to the client. The packet contains the unique PPP session identifier assigned by the access concentrator.
PADS	A packet that is sent to terminate the PPP session. It is typically sent by the access concentrator to the client.

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Drag and drop the PPPoE packet type on the left to the corresponding description on the right.

	PADI
	PADO
	PADR
	PADS
	PADT

QUESTION 401

Dynamic RF Feature

Controller image auto deployed to access Points

Easy Deployment Process

Controller uses loadbalancing to maximize throughput

Optimized user performance

Access points auto adjust signal strength

Easy upgrade process

Controller provides centralized management of users & vlans

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



QUESTION 402

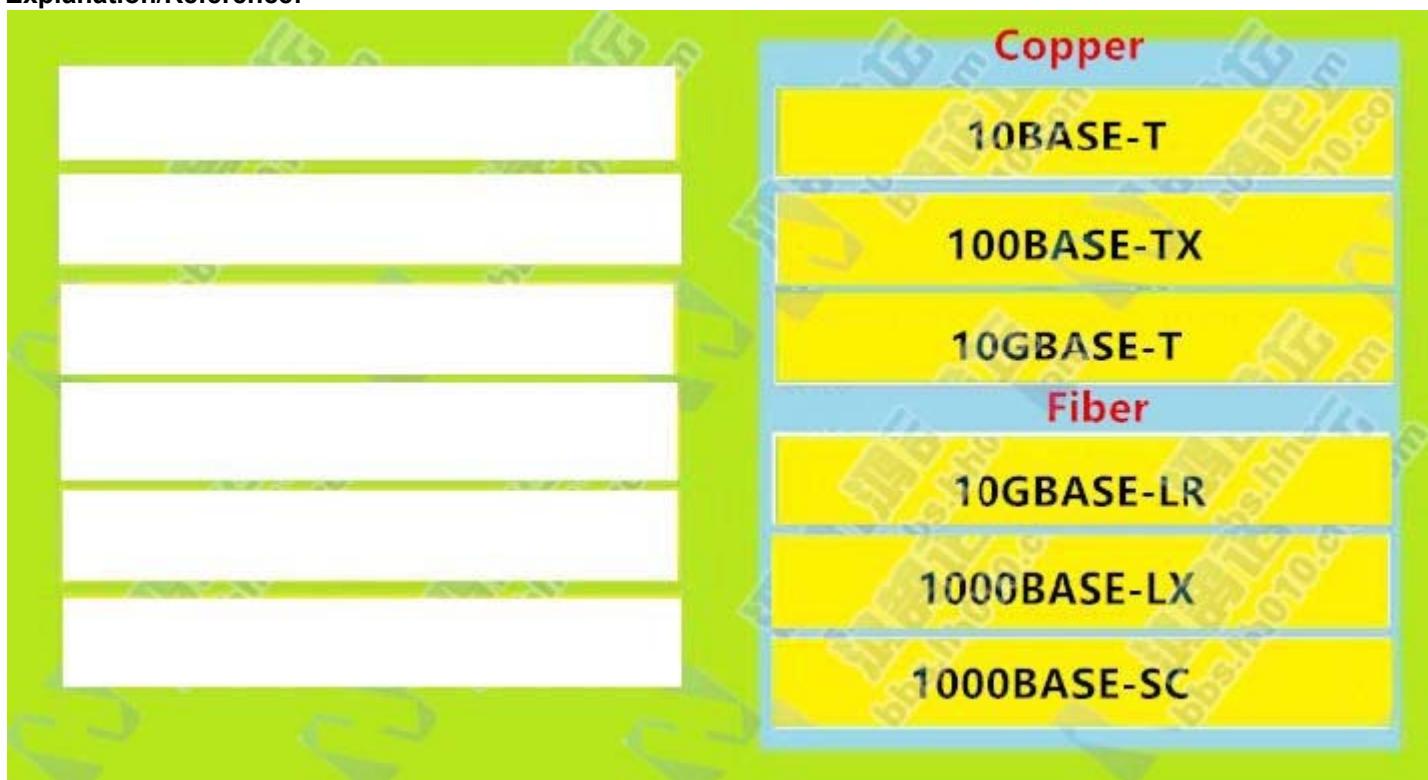


A.

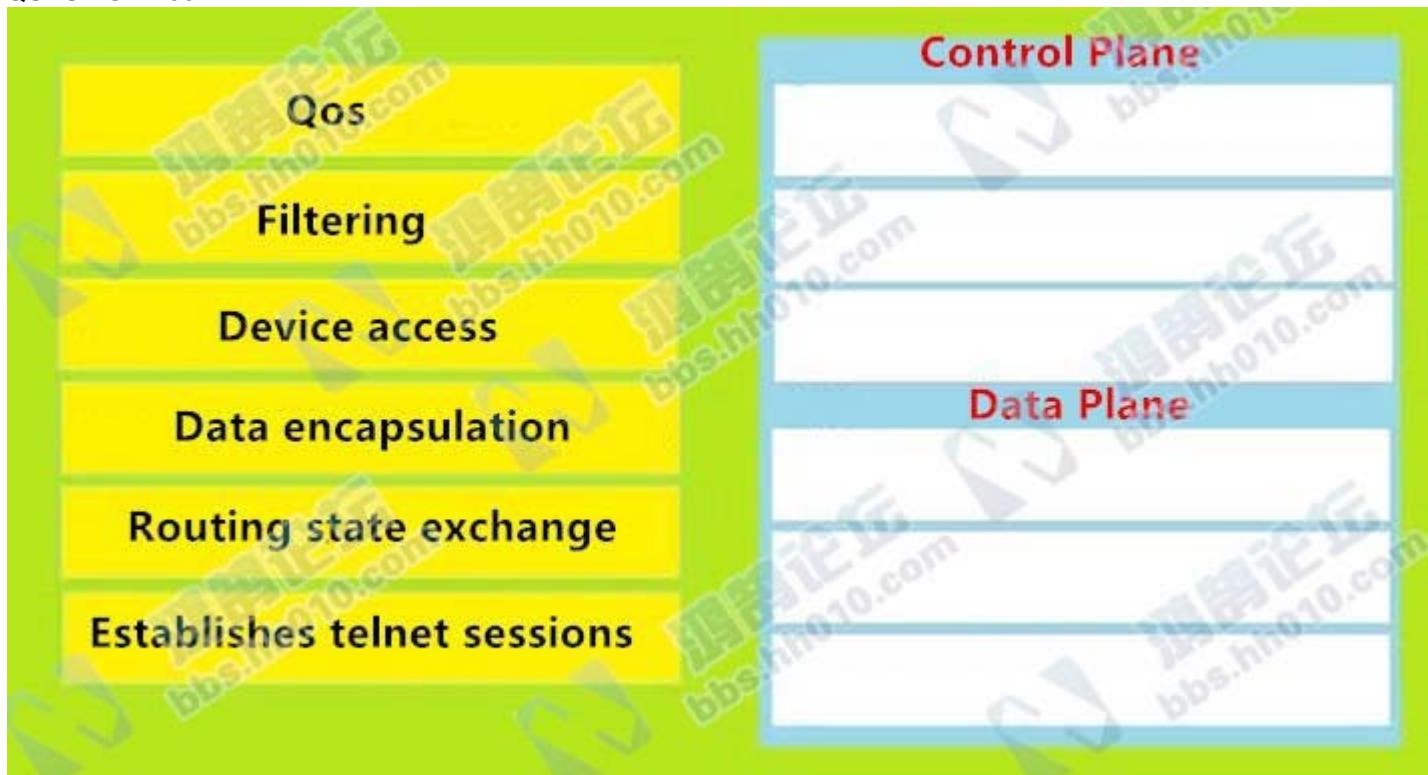
Correct Answer:
Section: (none)

Explanation

Explanation/Reference:



QUESTION 403



A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



QUESTION 404

Sends Transmission in Sequence	TCP
Transmits packet as stream	
Transmits packets individually	
Transmissions include an 8-byte header	UDP
Uses a lower transmission rate to ensure reliability	
Uses higher transmission rate to support latency-sensitive apps	

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

	TCP
	Sends Transmission in Sequence
	Transmits packet as stream
	Uses a lower transmission rate to ensure reliability
	UDP
	Transmits packets individually
	Transmissions include an 8-byte header
	Uses higher transmission rate to support latency-sensitive applications

QUESTION 405

Dynamic mac address	mac that is learned by the switch through normal traffic
Mac ACL	associates a learned mac address with its connected interface
Mac address table	removing an inactive mac after a specified time
Mac learning	feature that determines whether incoming traffic will be allowed
Mac aging	adding a previously unknown mac into the address table
Static mac	mac address that remains in the mac address table after reboot

A.

Correct Answer:
Section: (none)

Explanation

Explanation/Reference:

Dynamic mac address

Mac address table

Mac aging

Mac ACL

Mac learning

Static mac

QUESTION 406

requesting

initializing

bound

selecting

rebinding

renewing

Discover to server

from Offer from server

Request to server

from Ack from server

from same dhcp server

from different dhcp server

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

