

CCNA(200-125) Dumps V2.0 (2018.1.3)

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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

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

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

QUESTION 4

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

Switch(config)#vlan 20

A. 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

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-advipservicesk9-mz.124-24.T4.bin
- D. Router> boot flash:c180x-adventerprisek9-mz-124-6T.bin
- E. Router(config)#boot flash:c180x-adventerprisek9-mz-124-6T.bin
- F. Router(config)#boot bootldr bootflash:c4500-jk9s-mz.122-23f.bin

Correct Answer: ABC

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

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

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

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

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

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

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

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

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

QUESTION 15

A router has learned three possible routes that could be used to reach a destination

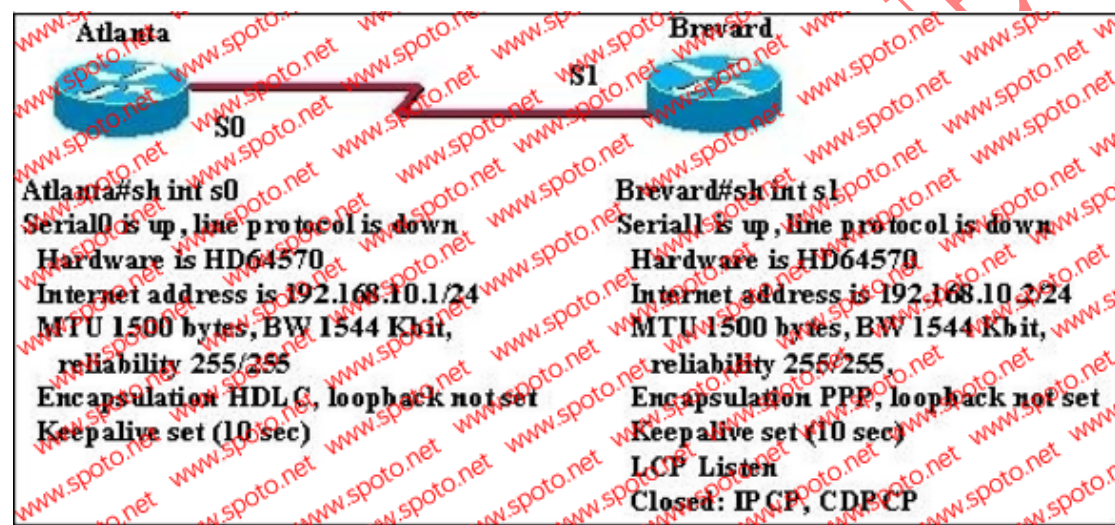
network. One route is from EIGRP and has a composite metric of 20514560. Another route is from OSPF with a metric of 782. The last is from RIPv2 and has a metric of 4. Which route or routes will the router install in the routing table?

- 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

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.



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

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

#### QUESTION 18

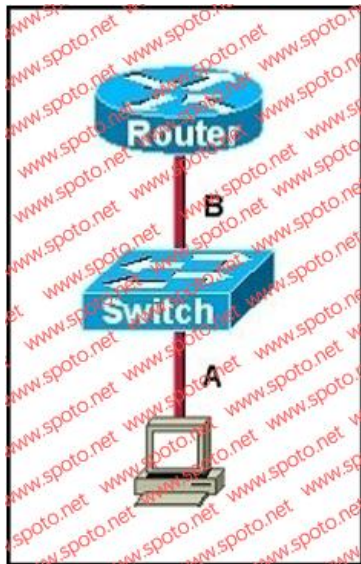
Which layer 2 protocol encapsulation type supports synchronous and asynchronous circuits and has built-in security mechanisms?

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

Correct Answer: D

#### 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

#### 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?

- 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

#### QUESTION 21

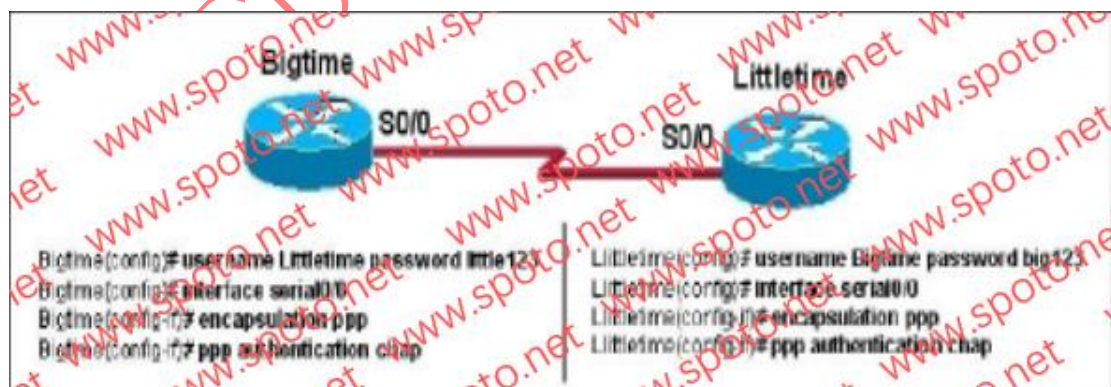
What will happen if a private IP address is assigned to a public interface connected to an ISP?

- 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

#### 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

### 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

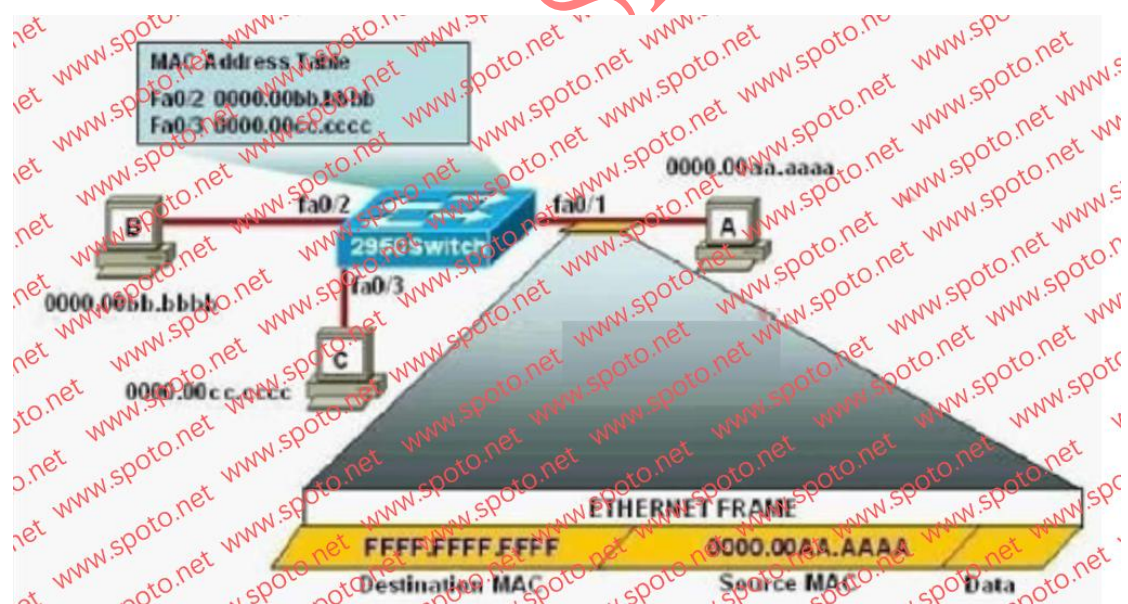
### QUESTION 24

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 is received by 2950Switch? (Choose two.)



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



F. Only frames from source 0000.00bb.bbbb, the first learned MAC address of 2950Switch, will be forwarded out fa0/1.

Correct Answer: BD

**QUESTION 25**

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

- A. enable cdp
- B. cdp enable
- C. cdp run
- D. run cdp

Correct Answer: C

**QUESTION 26**

A Cisco router is booting and has just completed the POST process. It is now ready to find and load an IOS image. 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

**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

**QUESTION 28**

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

```

Switch# Show spanning-tree span 30
VLAN0030
Spanning tree enabled protocol rstp
Root ID Priority 24506
Address 00d0.0493.2800
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 00d0.0493.2800
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 3 p2p

```

- 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

**QUESTION 29**

Which two commands can be used to verify a trunk link configuration 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

**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