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CCNA Interconnecting Cisco Networking Devices 1 (ICND1)

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QUESTION 1

Instructions:

You can click on the grey buttons below to view the different windows.

Each of the windows can be minimized by clicking on the [-]. You can also reposition a window by dragging it by the title bar.

The "Tab" key and most commands that use the "Control" or "Escape" keys are not supported and are not necessary to complete this simulation.

Scenario

This task requires the use of various **show** commands from the CLI of Router1 to answer four multiple-choice questions. This task does **not** require any configuration.

NOTE: The show running-configuration and the show startup-configuration commands have been disabled in this simulation.

To access the multiple-choice questions, click on the numbered boxes on the right of the top panel.

There are 4 multiple-choice questions with this task. Be sure to answer all 4 questions before leaving this item.

Topology
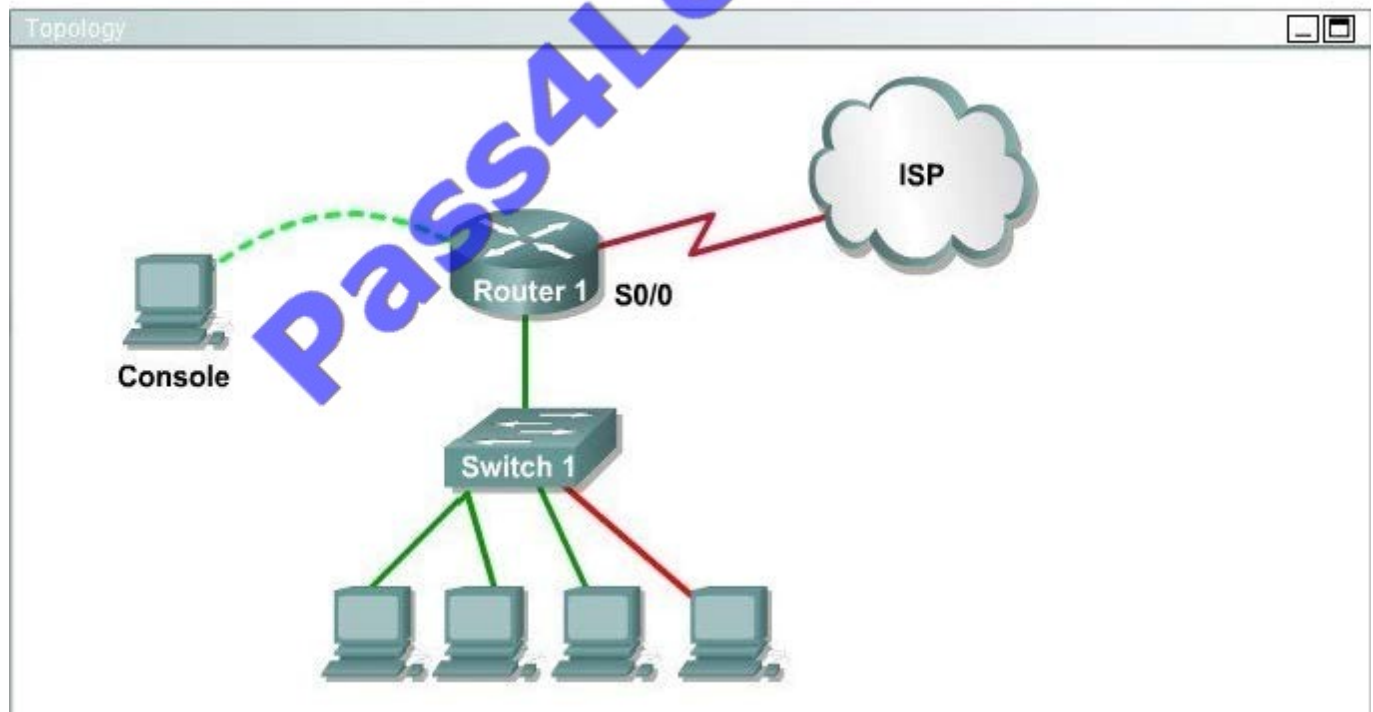
```
R1                                                                    [_]

Press RETURN to get started!
Router1>
```

Including the address on the Routed Ethernet interface, how many hosts can have IP addresses on the LAN to which Routed is connected?

A. 6

B. 30

C. 62

D. 126

Correct Answer: A

This is a /29 address, so there are 6 usable IP\\'s on this subnet.

QUESTION 2

Why would a network administrator configure port security on a switch?

A. to prevent unauthorized Telnet access to a switch port

B. to prevent unauthorized hosts from accessing the LAN

C. to limit the number of Layer 2 broadcasts on a particular switch port

D. block unauthorized access to the switch management interfaces

Correct Answer: B

You can use the port security feature to restrict input to an interface by limiting and identifying MAC addresses of the stations allowed to access the port. When you assign secure MAC addresses to a secure port, the port does not forward packets with source addresses outside the group of defined addresses. If you limit the number of secure MAC addresses to one and assign a single secure MAC address, the workstation attached to that port is assured the full bandwidth of the port. If a port is configured as a secure port and the maximum number of secure MAC addresses is reached, when the MAC address of a station attempting to access the port is different from any of the identified secure MAC addresses, a security violation occurs. Also, if a station with a secure MAC address configured or learned on one secure port attempts to access another secure port, a violation is flagged.

QUESTION 3

OSPF routing uses the concept of areas. What are the characteristics of OSPF areas? (Choose Three.)

A. Each OSPF area requires a loopback interface to be configured.

B. Areas may be assigned any number from 0 to 65535.

C. Area 0 is called the backbone area.

D. Hierarchical OSPF networks do not require multiple areas.

E. Multiple OSPF areas must connect to area 0.

F. Single area OSPF networks must be configured in area 1.

Correct Answer: BCE

Definition of OSPF areas: An OSPF network may be structured, or subdivided, into routing areas to simplify administration and optimize traffic and resource utilization. Areas are identified by 32-bit numbers, expressed either simply in decimal,

or often in octet-based dot- decimal notation, familiar from IPv4 address notation.

See discussion following Cisco Learning discussion.

https://learningnetwork.cisco.com/message/90832

QUESTION 4

Two routers named Atlanta and Brevard are connected by their serial interfaces as shown in the exhibit, but there is no data connectivity between them. The Atlanta router is known to have a correct configuration.
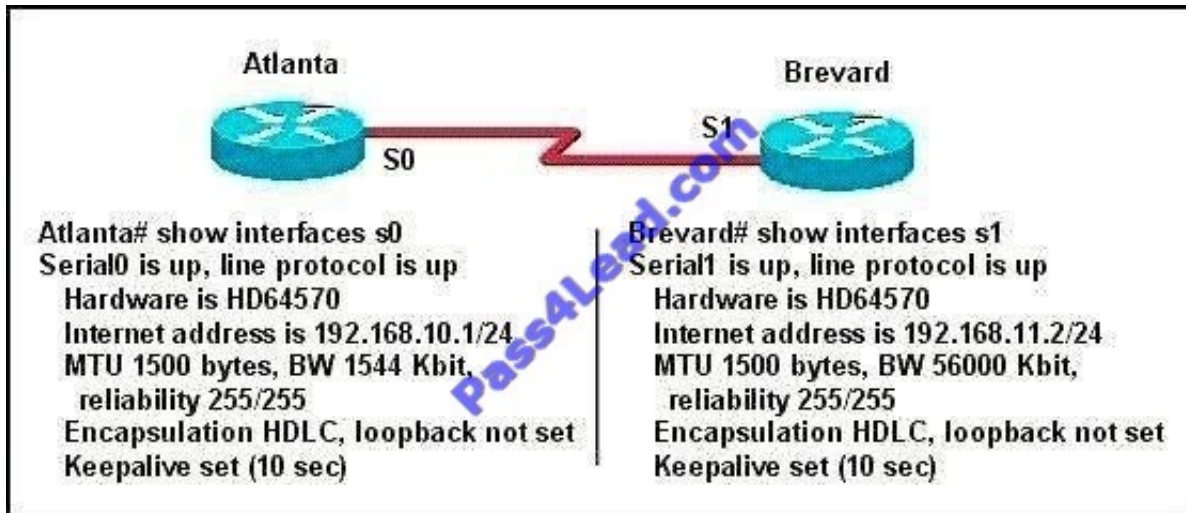
Given the partial configurations shown in the exhibit, what is the problem on the Brevard router that is causing the lack of connectivity?

A. A loopback is not set.

B. The IP address is incorrect.

C. The subnet mask is incorrect.

D. The serial line encapsulations are incompatible.

E. The maximum transmission unit (MTU) size is too large.

F. The bandwidth setting is incompatible with the connected interface.

Correct Answer: B

QUESTION 5

On a Cisco switch, which protocol determines if an attached VoIP phone is from Cisco or from another vendor?

A. RTP

B. TCP

C. CDP

D. UDP

Correct Answer: C

http://computernetworkingnotes.com/cisco-devices-administration-and-configuration/cisco- discoveryprotocol.html The Cisco Unified IP Phone uses CDP to communicate information such as auxiliary VLAN ID, per port power management details, and Quality of Service (QoS) configuration information with the Cisco Catalyst switch. Cisco Discovery Protocol (CDP) is a proprietary protocol designed by Cisco to help administrators collect information about both locally attached and remote devices. By using CDP, you can gather hardware and protocol information about neighbor devices, which is

useful info for troubleshooting the network. CDP messages are generated every 60 seconds as multicast messages on each of its active interfaces. The information shared in a CDP packet about a Cisco device includes the following: Name of the device configured with the hostname command IOS software version Hardware capabilities, such as routing, switching, and/or bridging Hardware platform, such as 2600, 2950, or 1900 The layer-3 address(es) of the device The interface the CDP update was generated on

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