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Module 8: Network Access basic routing and advance routing concept, switching concept

 Beginner Question

1. **Explain Switch**

* The most common type of switch is an electromechanical device consisting of one or more sets of movable electrical contacts connected to external circuits.

1. **Explain Switch Boot Sequence**

* Basic Switch Configuration
* First, the switch loads a power-on self-test (POST) program

stored in ROM. ...

* + - * Next, the switch loads the boot loader software. ...
      * The boot loader performs low-level CPU initialization. ...
* The boot loader initializes the flash file system on the system

board.

**3.** **Explain Three Methods to access Switch Command Line**

**Interface**

* Access the CLI through a console connection, through Telnet, a SSH, or by using the browser.

**4.Explain and Configuring the Cisco Internet Operating System**

* The system is a package of routing, switching, internetworking, and telecommunications functions integrated into a multitasking operating system.

**5. Explain Switch Port**

* A switch port enables the device to send and receive data packets as well as communicate with other networked devices.

**6. R1, R2, R3, and R4 have their Fast Ethernet 0/0 interfaces attached to the same VLAN. A network engineer has typed aconfiguration for each router by using a word processor. He will later copy and paste the configuration into the routers. Examine the following exhibit, which lists configuration for the four routers, as typed by the network engineer. Assuming that all four routers can ping each other’s LAN IP addresses after the configuration has been applied, choose the routers that will be able to form a neighbour relationship with the other routers on the LAN. (You can assume that, if not shown in the exhibit, all other related parameters are still set to their defaults.) (Choose two)**

A. R1

B. R2

C. R3

D. R4

E. None of the routers will exchange routing information.

* A, B

**7. enable secret [password] is**

**hashed using the\_\_\_\_\_ algorithm**.

A. MD5

B. AH

C. PSK

D. ESP

E. WPA2

* A MD5 algorithm

**8. An engineer connects to Router R1 and issues a show IP OSPF**

neighbor command. The status of neighbor 2.2.2.2 lists

FULL/BDR. What does the BDR mean?

A. R1 is an Area Border Router.

B. R1 is a backup designated router.

C. Router 2.2.2.2 is an Area Border Router.

D. Router 2.2.2.2 is a backup designated router.

* D. Router 2.2.2.2 is a backup designated router.

**9. Which command is used to view the neighbor discovery table on**

**a PC?**

A. show ipv6 neighbor

B. show ipv6 neighbors

C. netsh interface ipv6 show neighbor

D. netsh interface ipv6 show neighbors

* D netsh interface ipv6 show neighbor

**10. What type of variable is being shown? Routers = [R1,R2,R3]**

A. List

B. Dictionary

C. Simple

D. Unsigned integers

* A list

**11**. **Identify the fields in an IPv4 header. (Choose three)**

A. Host component

B. Time to Live

C. Source address

D. Destination address

E. Network address

* B, C, D