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**Module 8: Network Access**

** Beginner Question**

1. Explain Switch

**Answer:-** switch is a device that connects multiple network devices, such as computers, printers, and servers, and facilitates communication between them, typically within a Local Area Network (LAN).

1. Explain Switch Boot Sequence

**Answer:-**The switch boot sequence is the series of steps a network switch follows when powering on, including a Power-On Self Test (POST), loading the bootloader, and then initializing the operating system and network configuration.

1. Explain Three Methods to access Switch Command Line Interface

**Answer:-**Line Interface (CLI) using three primary methods: through a console connection, via Telnet, or through SSH.

1. Explain and Configuring the Cisco Internet Operating System

**Answer**:-A software that powers Cisco networking devices like routers and switches, enabling network management through a command-line interface (CLI).

1. Explain Switch Port

**Answer:-** A switch port is a physical opening on a network switch that allows devices to connect and communicate.

4-R1, R2, R3, and R4 have their Fast Ethernet 0/0 interfaces attached to the same VLAN. A Network engineer has typed a configuration 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 neighbor 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)

1. R1
2. R2
3. R3
4. R4
5. None of the routers will exchange routing information

**Answer:- A.R1 and C. R3**

3-enable secret [password] is Hashed using the algorithm.

1. MD5
2. AH
3. PSK
4. ESP
5. WPA2

**Answer:- A.MD5**

4- 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?

1. R1 is an Area Border Router.
2. R1 is a backup designated router.
3. Router 2.2.2.2 is an Area Border Router.
4. Router 2.2.2.2 is a backup designated router.

**Answer:- B. R1 is a backup designated router.**

5-Which command is used to view the neighbor discovery table on a PC?

1. Show ipv6 neighbor
2. Show ipv6 neighbors
3. Netsh interface ipv6 show neighbor
4. Netsh interface ipv6 show neighbors

**Answer:-D. netsh interface ipv6 show neighbors**

6-What type of variable is being shown? Routers = [R1,R2,R3]

1. List
2. Dictionary
3. Simple
4. Unsigned integers

**Answer:- A. List**

7- Identify the fields in an IPv4 header. (Choose three)

1. Host component
2. Time to Live
3. Source address
4. Destination address
5. Network

**Answer:-B. Time to Live and C. Source address and Destination address**