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

. Beginner Question

1. Explain switch.

Ans-> An Electrical component that can disconnect or connect the conducting path in an electrical circuit, interrupting the electric current or diverting it from one conductor to another.

2. Explain three methods to access switch command line interface.

Ans->(a) Telnet:

. Description: In this process, this use the telnet protocol and to access the switch remotely over a network.

. Procedure: In this process, they ensure that telnet is enabled on the switch and you have the switch’s IP address.

(b) SSH (Secure Shell):

. Description: The process, they use SSH for the secure remote access to the switch’s to CLI over a network.

. Procedure: They ensure SSH is to enabled on the switch and that you have its IP address.

3. Explain and configuring the Cisco Internet operating system.

Ans->

Set Hostname:

#hostname Aniket

Set Interfaces:

Interface GigabitEthernet0/0

Ip address 192.168.1.1 255.255.255.0

no shutdown

Configure VLANs (Switches):

Vlan 10

Name sales

Exit

Interfaces vlan 10

Ip address 192.168.10.1 255.255.255.0

No shutdown

4. Explain Switch Port.

Ans-> A switch port is a physical connection on network switch where devices are plugged in. It can configured as an access port for single VLANs or trunk port for multiple VLANs.

5. R1, R2, R3, and R4 have their fast Ethernet 0/0 interfaces attached to the same VLAN. A network engineer have 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)

Ans->(A) R1 (B) R2

6. Enable secret [password] is hashed using the algorithm.

Ans-> MD5

7. 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?

Ans-> Router 2.2.2.2 is a backup designated router

8. Which command is used to view the neighbor discovery table on a PC?

Ans-> netsh interface ipv6 show neighbor

9. What type of variable is being shown?

Ans-> list

10. Identify the fields in an IPV4 header. (Choose three)

Ans-> B. Time to live C. source address D. Destination address