



CA OF CCNA1 part2

Duration: 1hour

Class: BA1a and BA1b

Note: No Calculator

EXERCISE 1 MCQs: (20 x 1 = 20 marks)

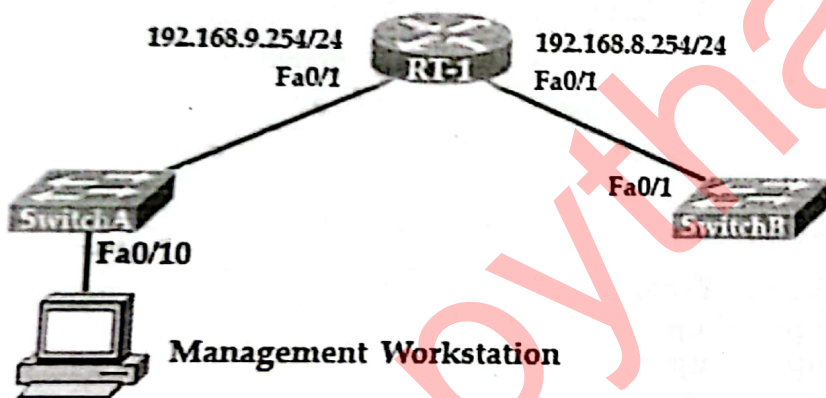
1. Refer to the exhibit.

Switch-1# show mac address-table			
Dynamic Addresses Count:			3
Secure Addresses (User-defined) Count:			0
Static Addresses (User-defined) Count:			0
System Self Addresses Count:			41
Total Mac addresses:			50
Non-static Address Table:			
Destination Address	Address Type	VLAN	Destination Port
-----	-----	-----	-----
0010.0de0.e289	Dynamic	1	FastEthernet0/1
0010.7b00.1540	Dynamic	2	FastEthernet0/3
0010.7b00.1545	Dynamic	2	FastEthernet0/2

Switch-1 needs to send data to a host with a MAC address of 00b0.d056.efa4. What will Switch-1 do with this data?

- Switch-1 will drop the data because it does not have an entry for that MAC address.
- Switch-1 will forward the data to its default gateway.
- Switch-1 will flood the data out all of its ports except the port from which the data originated
- Switch-1 will send an ARP request out all its ports except the port from which the data originated

2. A technician has installed SwitchB and needs to configure it for remote access from the management workstation connected SwitchA. Which set of commands is required to accomplish this task?



A. SwitchB(config)#interface FastEthernet 0/1
 SwitchB(config)#ip address 192.168.8.252 255.255.255.0
 SwitchB(config)#no shutdown

B. SwitchB(config)#ip default-gateway 192.168.8.254
 SwitchB(config)#interface vlan 1
 SwitchB(config)#ip address 192.168.8.252 255.255.255.0
 SwitchB(config)#no shutdown

C. SwitchB(config)#interface vlan 1
 SwitchB(config)#ip address 192.168.8.252 255.255.255.0
 SwitchB(config)#ip default-gateway 192.168.8.254 255.255.255.0
 SwitchB(config)#no shutdown

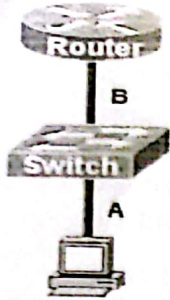
D. SwitchB(config)#ip default-network 192.168.8.254
 SwitchB(config)#interface vlan 1
 SwitchB(config)#ip address 192.168.8.252 255.255.255.0
 SwitchB(config)#no shutdown

3. A switch is configured with all ports assigned to vlan 2 with full duplex FastEthernet to segment existing departmental traffic. What is the effect of adding switch ports to a new VLAN on the switch?

- More collision domains will be created.
- IP address utilization will be more efficient.
- More bandwidth will be required than was needed previously.
- An additional broadcast domain will be created.



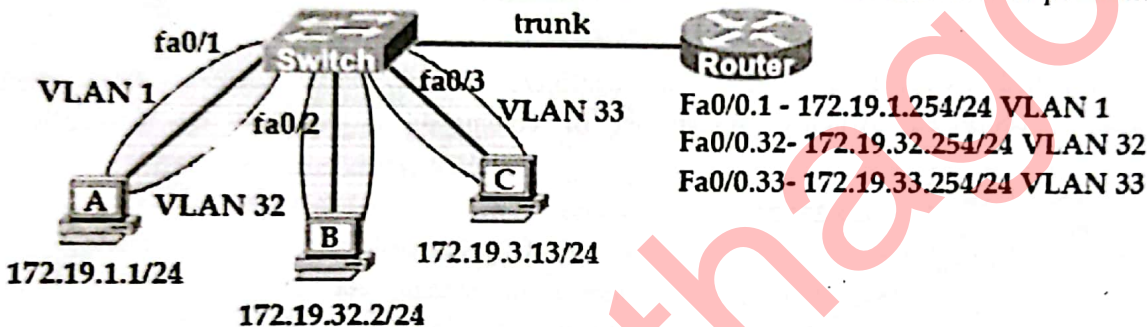
4.



- 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)
- Ensure that the Ethernet encapsulations match on the interconnected router and switch ports.
 - Ensure that cables A and B are straight-through cables.
 - Ensure cable A is plugged into a trunk port.
 - Ensure the switch has power.
 - Reboot all of the devices.

5. Why will a switch never learn a broadcast address?
- Broadcast frames are never sent to switches.
 - Broadcast addresses use an incorrect format for the switching table.
 - A broadcast address will never be the source address of a frame.
 - Broadcasts only use network layer addressing.
 - A broadcast frame is never forwarded by a switch.

6. The network administrator normally establishes a Telnet session with the switch from host A. The administrator's attempt to establish a connect via Telnet to the switch from host B fails, but pings from host B to other two hosts are successful. What is the issue for this problem?



Switch# show ip interface brief

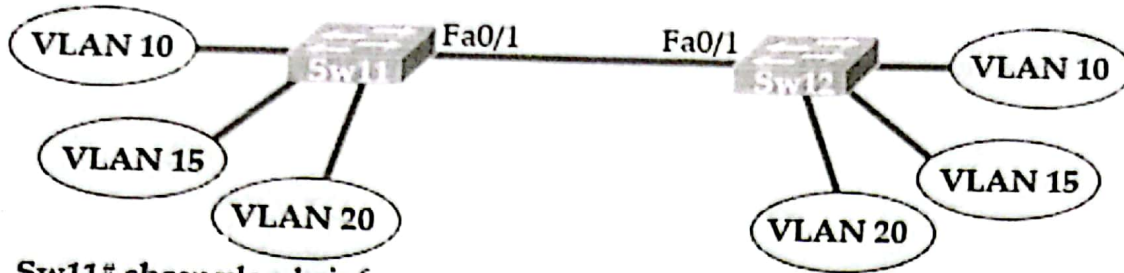
Interface	IP-Address	OK?	Method	Status	Protocol
Vlan 1	172.19.1.250	Yes	manual	up	up
FastEthernet0/1	unassigned	Yes	unset	up	up
FastEthernet0/2	unassigned	Yes	unset	up	up
FastEthernet0/3	unassigned	Yes	unset	up	up

<output omitted>

- Host B and the switch need to be in the same subnet.
 - The switch needs an appropriate default gateway assigned.
 - The switch interface connected to the router is down.
 - Host B need to be assigned an IP address in vlan 1.
7. Referring to the previous exhibit, what is default gateway IP address of host A?
8. Referring to the previous exhibit, what is VLAN 1 still default VLAN? a. Yes b. No
9. Referring to the previous exhibit, is the IP 172.19.1.250 a default gateway IP? a. Yes b. No
10. Referring to the previous exhibit, is the IP 172.19.1.250 a management IP for the switch? a. Yes b. No
11. In a switched environment, what does the IEEE 802.1Q standard describe?
- the operation of VTP
 - a method of VLAN trunking
 - an approach to wireless LAN communication
 - the process for root bridge selection
 - VLAN pruning
12. What does a Layer 2 switch use to decide where to forward a received frame?
- source MAC address
 - source IP address
 - source switch port
 - destination IP address
 - destination port address
 - destination MAC address
13. As a network technician, do you know which are valid modes for a switch port used as a VLAN trunk? (Choose three)
- Transparent
 - Auto
 - On
 - Desirable
 - passive
 - forwarding



14. Refer to the exhibit



Sw11# show vlan brief

VLAN Name	Status	Ports
1 default	active	
10 Marketing	active	Fa0/6, Fa0/7, Fa0/8, Fa0/9 Fa0/10, Fa0/11, Fa0/12, Fa0/13 Fa0/14, Fa0/15
15 Accounting	active	Fa0/16, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/24
20 Admin	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

A technician is troubleshooting host connectivity issues on the switches. The hosts in VLANs 10 and 15 on Sw11 are unable to communicate with hosts in the same VLANs on Sw12. Hosts in the Admin VLAN are able to communicate. The port-to-VLAN assignments are identical on the two switches. What could be the problem?

- The Fa0/1 port is not operational on one of the switches.
- The Link connecting the switches has not been configured as a trunk.
- At least one port needs to be configured in VLAN 1 for VLANs 10 and 15 to be able to communicate.
- Port FastEthernet 0/1 needs to be configured as an access link on both switches.
- A router is required for hosts on Sw11 in VLANs 10 and 15 to communicate with hosts in the same VLAN on Sw12.

15. Referring to the previous exhibit, is the VLAN 1 the default gateway? a. Yes b. No

16. Referring to the previous exhibit, is Fa0/1 a trunk port? a. Yes b. No

17. Referring to the previous exhibit, is Fa0/1 an access port? a. Yes b. No

18. Which three of these statements regarding 802.1Q trunking are correct? (Choose three)

- 802.1Q native VLAN frames are untagged by default.
- 802.1Q trunking ports can also be secure ports.
- 802.1Q trunks can use 10 Mb/s Ethernet interfaces.
- 802.1Q trunks require full-duplex, point-to-point connectivity.
- 802.1Q trunks should have native VLANs that are the same at both ends.

19. Which three elements must be used when you configure a router interface for vlan trunking? (Choose three)

- one IP network or subnetwork for each subinterface
- subinterface numbering that matches vlan tags
- subinterface encapsulation identifiers that match vlan tags
- a management domain for each subinterface
- one physical interface for each subinterface
- one subinterface per vlan

20. Which two link protocols are used to carry multiple VLANs over a single link? (Choose two)

- VTP
- 802.1q
- IGP
- ISL
- 802.3u