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Vendor: Cisco

Exam Code: 200-125

Exam Name: CCNA Cisco Certified Network Associate
CCNA (v3.0)

Version: Demo

DEMO

QUESTION 1

A network administrator needs to configure a serial link between the main office and a remote location. The router at the remote office is a non-Cisco router. How should the network administrator configure the serial interface of the main office router to make the connection?

- A. Main(config)# interface serial 0/0
Main(config-if)# ip address 172.16.1.1 255.255.255.252
Main(config-if)# no shut
- B. Main(config)# interface serial 0/0
Main(config-if)# ip address 172.16.1.1 255.255.255.252
Main(config-if)# encapsulation ppp
Main(config-if)# no shut
- C. Main(config)# interface serial 0/0
Main(config-if)# ip address 172.16.1.1 255.255.255.252
Main(config-if)# encapsulation frame-relay
Main(config-if)# authentication chap
Main(config-if)# no shut
- D. Main(config)# interface serial 0/0
Main(config-if)# ip address 172.16.1.1 255.255.255.252
Main(config-if)# encapsulation ietf
Main(config-if)# no shut

Correct Answer: B

QUESTION 2

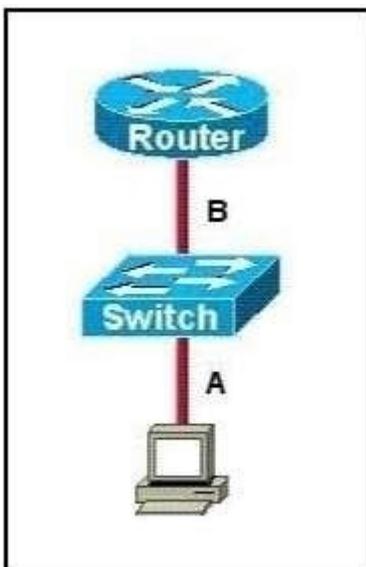
Which Layer 2 protocol encapsulation type supports synchronous and asynchronous circuits and has built-in security mechanisms?

- A. HDLC
- B. PPP
- C. X.25
- D. Frame Relay

Correct Answer: B

QUESTION 3

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.)



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

Correct Answer: BDF

QUESTION 4

A network administrator is troubleshooting the OSPF configuration of routers R1 and R2. The routers cannot establish an adjacency relationship on their common Ethernet link.

```

R1: Ethernet0 is up, line protocol is up
     Internet address 192.168.1.2/24, Area 0
     Process ID 1, Router ID 192.168.31.33, Network Type BROADCAST, Cost: 10
     Transmit Delay is 1 sec, State DR, Priority 1
     Designated Router (ID) 192.168.31.33, Interface address 192.168.1.2
     No backup designated router on this network
     Timer intervals configured, Hello 5, Dead 20, Wait 20, Retransmit 5

R2: Ethernet0 is up, line protocol is up
     Internet address 192.168.1.1/24, Area 0
     Process ID 2, Router ID 192.168.31.11, Network Type BROADCAST, Cost: 10
     Transmit Delay is 1 sec, State DR, Priority 1
     Designated Router (ID) 192.168.31.11, Interface address 192.168.1.1
     No backup designated router on this network
     Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
  
```

The graphic shows the output of the show ip ospf interface e0 command for routers R1 and R2. Based on the information in the graphic, what is the cause of this problem?

- A. The OSPF area is not configured properly.
- B. The priority on R1 should be set higher.
- C. The cost on R1 should be set higher.
- D. The hello and dead timers are not configured properly.
- E. A backup designated router needs to be added to the network.
- F. The OSPF process ID numbers must match.

Correct Answer: D

QUESTION 5

Standard industrialized protocol of etherchannel?

- A. LACP
- B. PAGP
- C. PRP
- D. REP

Correct Answer: A

QUESTION 6

Two features of the extended ping command? (Choose two.)

- A. It can send a specific number of packet
- B. It can send packet from specified interface of IP address
- C. It can resolve the destination host name

D. It can ping multiple host at the same time

Correct Answer: AB

QUESTION 7

What command is used to configure a switch as authoritative NTP server?

- A. ntp master 3
- B. ntp peer IP
- C. ntp server IP
- D. ntp source IP

Correct Answer: A

QUESTION 8

Two statements about syslog logging?

- A. Syslog logging is disabled by default
- B. Messages are stored in the internal memory of device
- C. Messages can be erased when device reboots
- D. Messages are stored external to the device
- E. other
- F. other

Correct Answer: AD

QUESTION 9

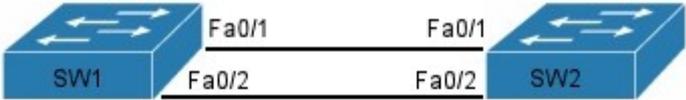
How to enable vlans automatically across multiple switches?

- A. Configure VLAN
- B. Confiture NTP
- C. Configure each VLAN
- D. Configure VTP

Correct Answer: D

QUESTION 10

Refer to the exhibit.



```
SW1

interface FastEthernet 0/1
  channel-group 1 mode auto
  switchport trunk encapsulation dot1q
  switchport mode trunk

interface FastEthernet 0/2
  channel-group 1 mode auto
  switchport trunk encapsulation dot1q
  switchport mode trunk
```

A network administrator is configuring an EtherChannel between SW1 and SW2. The SW1 configuration is

shown. What is the correct configuration for SW2?

- A. interface FastEthernet 0/1
channel-group 1 mode active
switchport trunk encapsulation dot1q
switchport mode trunk
interface FastEthernet 0/2
channel-group 1 mode active
switchport trunk encapsulation dot1q
switchport mode trunk
- B. interface FastEthernet 0/1
channel-group 2 mode auto
switchport trunk encapsulation dot1q
switchport mode trunk
interface FastEthernet 0/2
channel-group 2 mode auto
switchport trunk encapsulation dot1q
switchport mode trunk
- C. interface FastEthernet 0/1
channel-group 1 mode desirable
switchport trunk encapsulation dot1q
switchport mode trunk
interface FastEthernet 0/2
channel-group 1 mode desirable
switchport trunk encapsulation dot1q
switchport mode trunk
- D. interface FastEthernet 0/1
channel-group 1 mode passive
switchport trunk encapsulation dot1q
switchport mode trunk
interface FastEthernet 0/2
channel-group 1 mode passive
switchport trunk encapsulation dot1q
switchport mode trunk

Correct Answer: C

QUESTION 11

Refer to the exhibit.

```
ALSwitch1# show running-config
<<output omitted>>
interface FastEthernet0/24 no ip address
<<output omitted>>
ALSwitch1# show interfaces FastEthernet0/24 switchport
Name: Fa0/24
Switchport: Enable
Administrative Mode: static access
Operation Mode: static access
Administrative Trunking Encapsulation: dot1q
Operation Trunking Encapsulation: native
Negotiation of Trunking: Off
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Operation private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL

Protected: false

Voice VLAN: none (Inactive)
Appliance trust: none
```

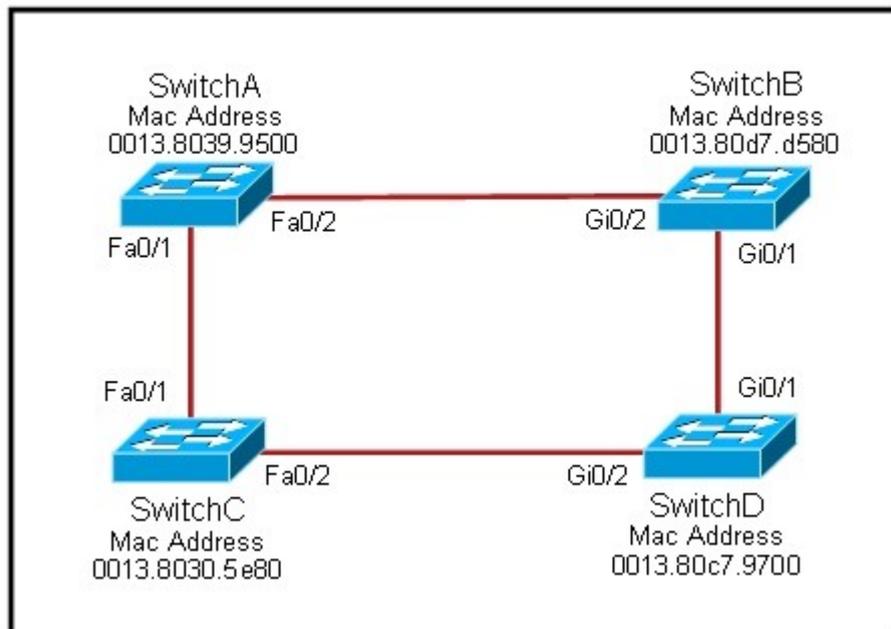
Switch port FastEthernet 0/24 on ALSwitch1 will be used to create an IEEE 802.1Q- compliant trunk to another switch. Based on the output shown, what is the reason the trunk does not form, even though the proper cabling has been attached?

- A. VLANs have not been created yet.
- B. An IP address must be configured for the port.
- C. The port is currently configured for access mode.
- D. The correct encapsulation type has not been configured.
- E. The "no shutdown" command has not been entered for the port.

Correct Answer: C

QUESTION 12

Refer to the exhibit.



Each of these four switches has been configured with a hostname, as well as being configured to run RSTP. No other configuration changes have been made. Which three of these show the correct RSTP port roles for the indicated switches and interfaces? (Choose three.)

- A. SwitchA, Fa0/2, designated
- B. SwitchA, Fa0/1, root
- C. SwitchB, Gi0/2, root
- D. SwitchB, Gi0/1, designated
- E. SwitchC, Fa0/2, root
- F. SwitchD, Gi0/2, root

Correct Answer: ABF

QUESTION 13

What does a Layer 2 switch use to decide where to forward a received frame?

- A. source MAC address
- B. source IP address
- C. source switch port
- D. destination IP address
- E. destination port address
- F. destination MAC address

Correct Answer: F

QUESTION 14

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

- A. VTP
- B. 802.1q
- C. IGP
- D. ISL
- E. 802.3u

Correct Answer: BD

QUESTION 15

Three switches are connected to one another via trunk ports. Assuming the default switch configuration, which switch is elected as the root bridge for the spanning-tree instance of VLAN 1?

- A. the switch with the highest MAC address
- B. the switch with the lowest MAC address
- C. the switch with the highest IP address
- D. the switch with the lowest IP address

Correct Answer: B

QUESTION 16

What are two requirements for an HSRP group? (Choose two.)

- A. exactly one active router
- B. one or more standby routers
- C. one or more backup virtual routers
- D. exactly one standby active router
- E. exactly one backup virtual router

Correct Answer: AB

QUESTION 17

Which three statements about static routing are true? (Choose three.)

- A. It uses consistent route determination.
- B. It is best used for small-scale deployments.
- C. Routing is disrupted when links fail.
- D. It requires more resources than other routing methods.
- E. It is best used for large-scale deployments.
- F. Routers can use update messages to reroute when links fail.

Correct Answer: ABC

QUESTION 18

In which three ways is an IPv6 header simpler than an IPv4 header? (Choose three.)

- A. Unlike IPv4 headers, IPv6 headers have a fixed length.
- B. IPv6 uses an extension header instead of the IPv4 Fragmentation field.
- C. IPv6 headers eliminate the IPv4 Checksum field.
- D. IPv6 headers use the Fragment Offset field in place of the IPv4 Fragmentation field.
- E. IPv6 headers use a smaller Option field size than IPv4 headers.
- F. IPv6 headers use a 4-bit TTL field, and IPv4 headers use an 8-bit TTL field.

Correct Answer: ABC

QUESTION 19

Which command is necessary to permit SSH or Telnet access to a Cisco switch that is otherwise configured for these vty line protocols?

- A. transport type all
- B. transport output all
- C. transport preferred all
- D. transport input all

Correct Answer: D

QUESTION 20

Which two security appliances will you use in a network? (Choose two.)

- A. ATM
- B. IDS
- C. IOS
- D. IOX
- E. IPS
- F. SDM

Correct Answer: BE

QUESTION 21

What are two benefits of private IPv4 IP addresses? (Choose two.)

- A. They are routed the same as public IP addresses.
- B. They are less costly than public IP addresses.
- C. They can be assigned to devices without Internet connections.
- D. They eliminate the necessity for NAT policies.
- E. They eliminate duplicate IP conflicts.

Correct Answer: AC

QUESTION 22

how to see dhcp conflict?

- A. show ip dhcp pool
- B. show dhcp database

Correct Answer: A

QUESTION 23

Which Cisco platform can verify ACLs?

- A. Cisco Prime Infrastructure
- B. Cisco Wireless LAN Controller
- C. Cisco APIC-EM
- D. Cisco IOS-XE

Correct Answer: C

QUESTION 24

Which type of mac address is aged automatically by the switch?

- A. Dynamic
- B. Static
- C. automatic
- D. manual

Correct Answer: A

QUESTION 25

Which major component of the network virtualization architecture isolate users according to policy?

- A. policy enforcement
- B. network access control
- C. network services virtualization

Correct Answer: B

QUESTION 26

Which function does IP SLA ICMP ECHO operation perform to assist with troubleshooting

- A. packet-loss detection
- B. congestion detection
- C. hop-by-hop response time
- D. one way jitter measurement

Correct Answer: C

QUESTION 27

If a router has 3 hosts connected in one port and two other hosts connected in another port, how many broadcast domains are present on the router?

- A. 5
- B. 2
- C. 3
- D. 4

Correct Answer: B

QUESTION 28

Under normal operations, Cisco recommends that you configure switch ports on which VLAN?

- A. on the default VLAN
- B. on the management VLAN
- C. on the native VLAN
- D. on any VLAN except the default VLAN

Correct Answer: D

QUESTION 29

Which command can you enter to display the operational status of the network ports on a router?

- A. show interface switchport
- B. show ip interface brief
- C. show running-config interface fastethernet 0/1
- D. show interface status

Correct Answer: B

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