Vendor: Cisco

Exam Code: 200-125

Exam Name: CCNA Routing and Switching v3.0

Version: Demo

QUESTION 1

If a host experiences intermittent issues that relate to congestion within a network while remaining connected, which option could cause congestion on this LAN?

A. multicasting
B. network segmentation
C. broadcast storms
D. half-duplex operation

Correct Answer: C

QUESTION 2

At which layer of the OSI model does the protocol that provides the information that is displayed by the show cdp neighbors command operate?

A. data link
B. application
C. network
D. transport
E. physical

Correct Answer: A

QUESTION 3

From which PPPoE server configuration does a PPPoE client get an IP address?

A. AAA authentication
B. DHCP
C. dialer interface
D. virtual-template interface

Correct Answer: D

QUESTION 4

Which Ethernet interface command is present when you boot a new Cisco router for the first time?

A. speed 100
B. shutdown

C. ip address 192.168.1.1 255.255.255.0

D. duplex half

Correct Answer: B

QUESTION 5

Which configuration command can you apply to a HSRP router so that its local interface becomes active if all other routers in the group fail?

A. no additional config is required

B. standby 1 track ethernet

C. standby 1 preempt

D. standby 1 priority 250

Correct Answer: A

QUESTION 6

Which statement about NTP is true?

A. The default authentication key number is 1.

B. The default source address of an NTP message is the interface connected to the next- hop for the server peer address.

C. The default stratum number is 5.

D. Each device is enabled as a server by default and propagates NTP messages to all peers on its default LAN.

Correct Answer: B

QUESTION 7

Which Cisco SDN controller supports existing enterprise network devices?

A. APIC-EM

B. OpenFlow

C. Open SDN

D. ACI

Correct Answer: A

QUESTION 8
Which statement about DHCP address pools is true?

A. A network must be defined before you can configure a manual binding.
B. Only one DNSserver can be identified for an individual DHCP group.
C. You can use a subnet mask of prefix length to define a network.
D. The domain name of the DHCP pool is specified in the global configuration of the router.

Correct Answer: C

QUESTION 9
Which protocol verifies connectivity between two switches that are configured with IP
addresses in the same network?

A. ICMP
B. STP
C. VTP
D. HSRP

Correct Answer: A

QUESTION 10
Which sequence begins a unique local IPv6 address in binary notation?

A. 1111110
B. 1111111
C. 00000000
D. 1111100

Correct Answer: A

QUESTION 11
Which statement about unique local IPv6 addresses is true?

A. Summarization is not supported.
B. They require all prefixes to be unique.
C. Their global IDs are assigned sequentially.
D. They are routable to the public Internet.

Correct Answer: B

QUESTION 12

Refer to the exhibit. The enterprise has decided to use the network address 172.16.0.0. The network administrator needs to design a classful addressing scheme to accommodate the three subnets, with 30, 40, and 50 hosts, as shown. Which subnet mask would accommodate this network?
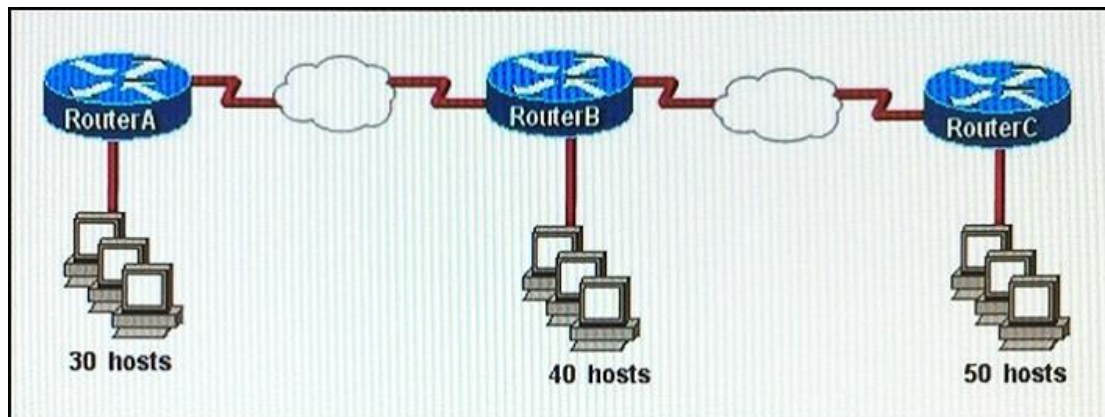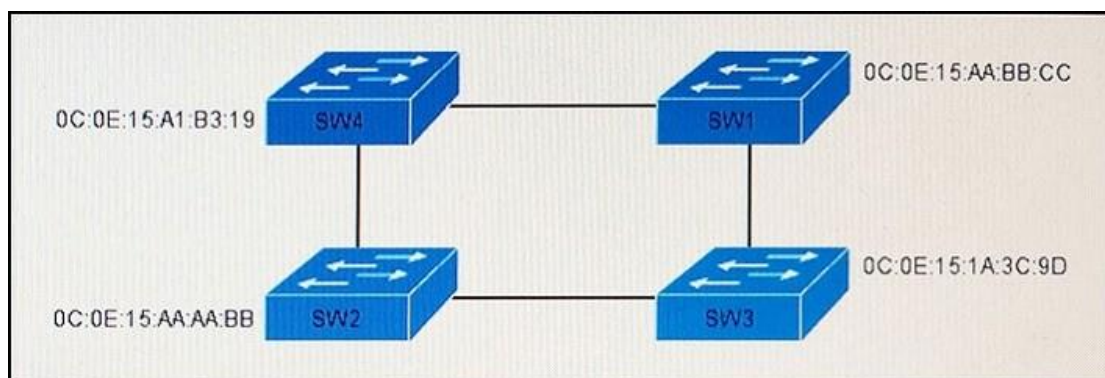

A. 255.255.255.224
B. 255.255.255.240
C. 255.255.255.252
D. 255.255.255.248
E. 255.255.255.192

Correct Answer: E

QUESTION 13

Refer to the exhibit. Which switch in this configuration becomes the root bridge?

A. SW1
B. SW2
C. SW3
D. SW4

Correct Answer: C

QUESTION 14
Which subnet address is for the IP address 172.19.20.23/28?

A. 172.19.20.20
B. 172.19.20.0
C. 172.19.20.32
D. 172.19.20.15
E. 172.19.20.16

Correct Answer: E

QUESTION 15
Refer to the exhibit. The exhibit is showing the topology and the MAC address table. Host A sends a data frame to host D. Which option describes what the switch will do when it receives the frame from host A?
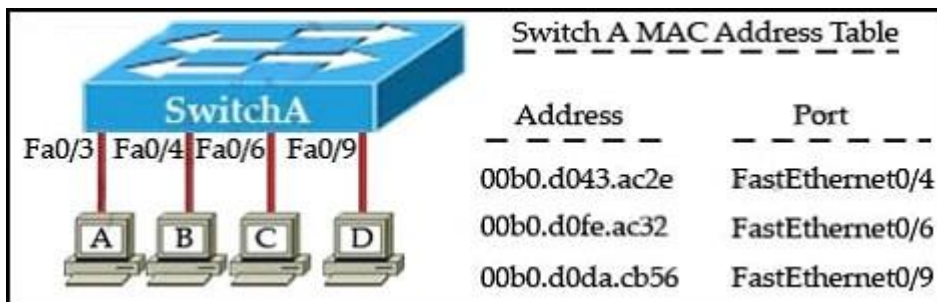
A. The switch will flood the frame out of all ports except for port Fa0/3.
B. The switch will add the destination address of the frame to the MAC address table and forward theframe to host D.
C. The switch will add the source address and port tothe MAC address table and forward the frame to host D.
D. The switch will discard the frame and send an error message back to host A.

Correct Answer: C

QUESTION 16
Which statement about 6to4 tunneling is true?

A. One tunnel endpoint must be configured with IPv4 only.
B. Both tunnel endpoint must be configured with IPv4 only.
C. It establishes a point-to-point tunnel.
D. Both tunnel endpoints must support IPv4 and IPv6.

Correct Answer: D

QUESTION 17
Which two actions must you take to configure a PAgP EthernetChannel between two switches, S1 and S2? (Choose two.)

A. Configure the channel-group 1 mode auto command on S1.
B. Configure the channel-group1 mode desirable command on S2.
C. Configure the channel-group 1 mode active command on S2.
D. Configure the channel-group 1 mode on command on S2.
E. Configure the channel-group 1 mode active command on S1.

Correct Answer: AB

QUESTION 18
After you configure a new router to connect to a host through the GigabitEthernet0/0 port of the router, you log in to the router and observe that the new link is down. Which action corrects the problem?

A. Use a crossover cable between the host and R1.
B. Use a straight through cable between the host and R1.
C. Configure the host to use R1 as the default gateway.
D. Use a rollover cable between the host and R1.

Correct Answer: A

QUESTION 19
Under which two circumstances is network traffic most likely to use an Exterior Gateway Routing Protocol? (Choose two)

A. When an employee connects to an employer branch office in a different city.

B. When network traffic is routing to a different building on a corporate campus.

C. When an employee is browsing the public internet.

D. When an employee checks email while working onsite at the data center.

E. When a user browsing the web site of a business partner.

Correct Answer: AD

QUESTION 20
How does a Cisco switch respond if you boot it without a valid configuration in the NVRAM?

A. it enters setup mode.

B. it uses the running-configuration

C. It prompts you to restore the startup configuration

D. it enters user EXEC mode.

Correct Answer: B

QUESTION 21
Which three statements accurately describe CDP? (Choose three.)

A. CDP can discover Cisco devices that are not directly connected.

B. CDP is a network layer protocol.

C. CDP can discover directly connected neighboring Cisco devices.

D. CDP is a datalink layer protocol.

E. CDP is a Cisco proprietary protocol.

F. CDP is an IEEE standard protocol.

Correct Answer: CDE

QUESTION 22
What is the default encapsulation type for Cisco WAN serial interfaces?

A. Frame Relay

B. HDLC

C. PPP

D. SDLC

Correct Answer: B