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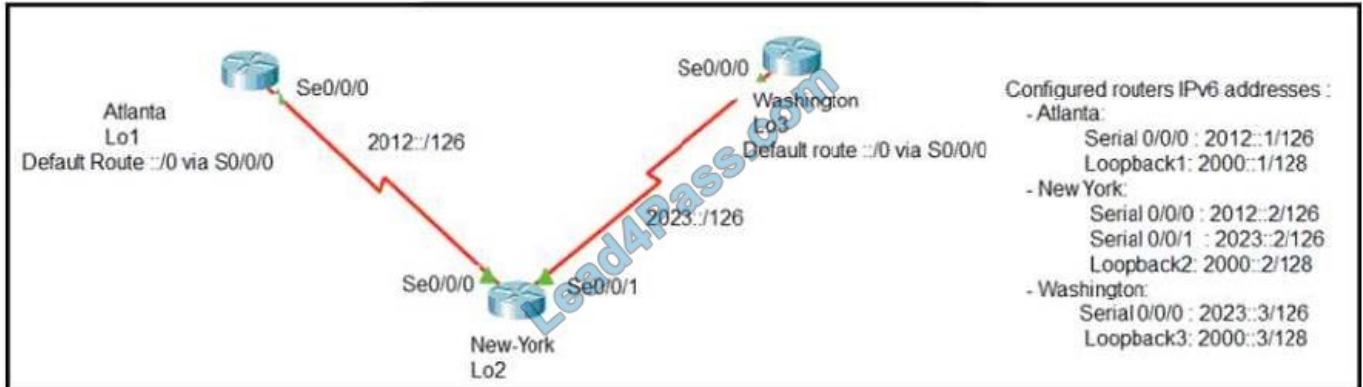
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QUESTION 1

Refer to Exhibit.



The loopback1 interface of the Atlanta router must reach the loopback3 interface of the Washington router. Which two static host routes must be configured on the NEW York router? (Choose two)

- A. ipv6 route 2000::1/128 2012::1
- B. ipv6 route 2000::3/128 2023::3
- C. ipv6 route 2000::3/128 s0/0/0
- D. ipv6 route 2000::1/128 2012::2
- E. ipv6 route 2000::1/128 s0/0/1

Correct Answer: AB

QUESTION 2

What are two reasons a network administrator would use CDP? (Choose two.)

- A. to verify the type of cable interconnecting two devices
- B. to determine the status of network services on a remote device
- C. to obtain VLAN information from directly connected switches
- D. to verify Layer 2 connectivity between two devices when Layer 3 fails
- E. to obtain the IP address of a connected device in order to telnet to the device
- F. to determine the status of the routing protocols between directly connected routers

Correct Answer: DE



QUESTION 3

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
    is directly connected, Serial0/1/0
    172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
S   172.16.3.0/24 [1/0] via 209.165.200.250, Serial0/0/0
O   172.16.3.0/28 [110/1] via 209.165.200.254, 00:00:28, Serial0/0/1
    209.165.200.0/24 is variably subnetted, 6 subnets, 2 masks
C   209.165.200.244/30 is directly connected, Serial0/1/0
L   209.165.200.245/32 is directly connected, Serial0/1/0
C   209.165.200.248/30 is directly connected, Serial0/0/0
L   209.165.200.249/32 is directly connected, Serial0/0/0
C   209.165.200.252/30 is directly connected, Serial0/0/1
L   209.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit. A packet is being sent across router R1 to host 172.16.0.14. What is the destination route for the packet?

- A. 209.165.200.250 via Serial0/0/0
- B. 209.165.200.254 via Serial0/0/0
- C. 209.165.200.254 via Serial0/0/1
- D. 209.165.200.246 via Serial0/1/0

Correct Answer: D

QUESTION 4

Drag and drop the network protocols from the left onto the correct transport services on the right.

Select and Place:



	Connection Oriented
SMTP	
SNMP	
TFTP	
VoIP	
SSH	
FTP	

Correct Answer:

	Connection Oriented
	FTP
	SMTP
	SSH
	Connectionless
	SNMP
	TFTP
	VoIP

QUESTION 5

Refer to the exhibit. What is the result if Gig1/11 receives an STP BPDU?



```
switch(config)#interface gigabitEthernet 1/11
switch(config-if)#switchport mode access
switch(config-if)#spanning-tree portfast
switch(config-if)#spanning-tree bpduguard enable
```

- A. The port transitions to STP blocking
- B. The port transitions to the root port
- C. The port immediately transitions to STP forwarding.
- D. The port goes into error-disable state

Correct Answer: D

QUESTION 6

Which set of actions satisfy the requirement for multifactor authentication?

- A. The user enters a user name and password, and then re-enters the credentials on a second screen.
- B. The user swipes a key fob, then clicks through an email link.
- C. The users enters a user name and password, and then clicks a notification in an authentication app on a mobile device.
- D. The user enters a PIN into an RSA token, and then enters the displayed RSA key on a login screen.

Correct Answer: C

This is an example of how two-factor authentication (2FA) works:

1.
The user logs in to the website or service with their username and password.
2.
The password is validated by an authentication server and, if correct, the user becomes eligible for the second factor.



3.
The authentication server sends a unique code to the user's second-factor method (such as a smartphone app).
4.
The user confirms their identity by providing the additional authentication for their second-factor method.

QUESTION 7

Refer to the exhibit.



```
CertBus-R2#show ip route
Gateway of last resort is not set

 10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C       10.10.10.8/30 is directly connected, FastEthernet0/2
C       10.10.10.12/30 is directly connected, FastEthernet0/1
O       10.10.13.0/25 [110/11] via 10.10.10.9, 00:00:03, FastEthernet0/2
                [110/11] via 10.10.10.13, 00:00:03, FastEthernet0/1
C       10.10.10.4/30 is directly connected, FastEthernet0/2
```

If OSPF is running on this network, how does Router 2 handle traffic from Site B to 10.10.13/25 at Site A?

- A. It load-balances traffic out of Fa0/1 and Fa0/2.
- B. It is unreachable and discards the traffic.
- C. It sends packets out of interface Fa0/2.
- D. It sends packets out of interface Fa0/1.

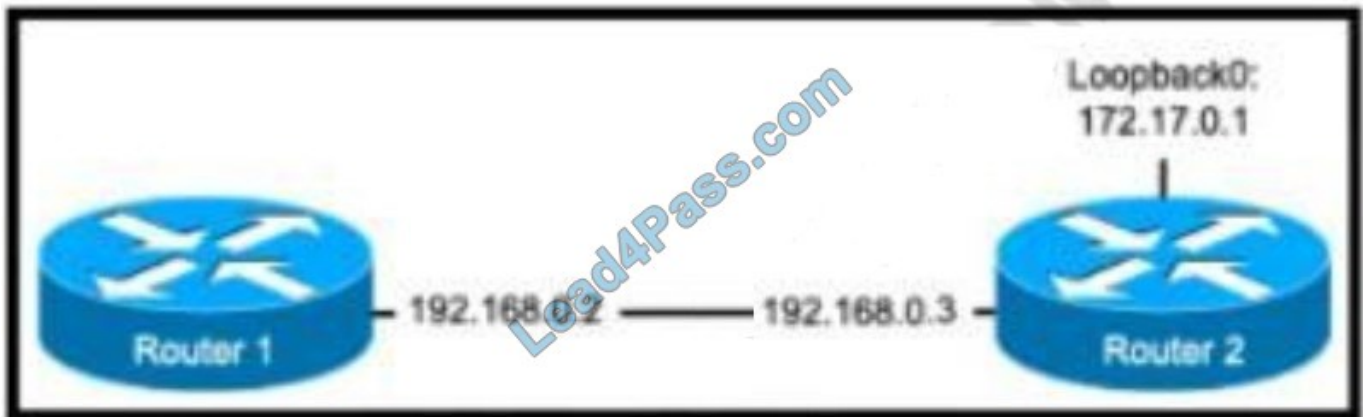
Correct Answer: B

QUESTION 8

Refer to the exhibit. The ntp server 192.168.0.3 command has been configured on router 1 to make it an NTP client of router 2.



Which command must be configured on router 2 so that it operates in server-only mode and relies only on its internal clock?



- A. Router2(config)#ntp passive
- B. Router2(config)#ntp server 172.17.0.1
- C. Router2(config)#ntp master 4
- D. Router2(config)#ntp server 192.168.0.2

Correct Answer: C

QUESTION 9

Which JSON data type is an unordered set of attribute- value pairs?

- A. array
- B. string
- C. object
- D. Boolean

Correct Answer: C

QUESTION 10

Which two actions influence the EIGRP route selection process? (Choose two.)

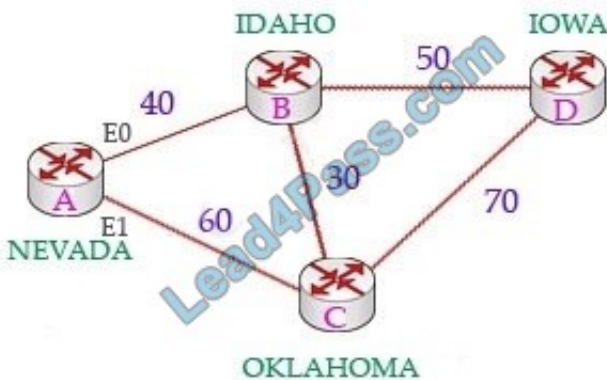
- A. The advertised distance is calculated by a downstream neighbor to inform the local router of the bandwidth on the link.
- B. The router calculates the feasible distance of all paths to the destination route.
- C. The router must use the advertised distance as the metric for any given route.



- D. The router calculates the best backup path to the destination route and assigns it as the feasible successor.
- E. The router calculates the reported distance by multiplying the delay on the exiting interface by 256.

Correct Answer: BD

The reported distance (or advertised distance) is the cost from the neighbor to the destination. It is calculated from the router advertising the route to the network. For example in the topology below, suppose router A and B are exchanging their routing tables for the first time. Router B says “Hey, the best metric (cost) from me to IOWA is 50 and the metric from you to IOWA is 90” and advertises it to router A. Router A considers the first metric (50) as the Advertised distance. The second metric (90), which is from NEVADA to IOWA (through IDAHO), is called the Feasible distance.



The reported distance is calculated in the same way of calculating the metric. By default (K1 = 1, K2 = 0, K3 = 1, K4 = 0, K5 = 0), the metric is calculated as follows:

$$metric = \left[\frac{10,000,000}{\text{slowest bandwidth[in kbps]}} + \frac{\text{sum of delay[in } \mu\text{sec]}}{10} \right] * 256$$

Feasible successor is the backup route. To be a feasible successor, the route must have an Advertised distance (AD) less than the Feasible distance (FD) of the current successor route.

Feasible distance (FD): The sum of the AD plus the cost between the local router and the next-hop router. The router must calculate the FD of all paths to choose the best path to put into the routing table.

Note: Although the new CCNA exam does not have EIGRP topic but you should learn the basic knowledge of this routing protocol.

QUESTION 11

Which command enables a router to become a DHCP client?

- A. ip address dhcp
- B. ip dhcp client
- C. ip helper-address



D. ip dhcp pool

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_dhcp/configuration/12-4/dhcp-12-4-book/config-dhcp-client.html If we want to get an IP address from the DHCP server on a Cisco device, we can use the command "ip address dhcp".

QUESTION 12

You have configured a router with an OSPF router ID, but its IP address still reflects the physical interface. Which action can you take to correct the problem in the least disruptive way?

- A. Reload the OSPF process
- B. Specify a loopback address
- C. Reboot the router
- D. Save the router configuration

Correct Answer: A

Once an OSPF Router ID selection is done, it remains there even if you remove it or configure another OSPF Router ID. So the least disruptive way is to correct it using the command "clear ip ospf process".

QUESTION 13

Which mode must be used to configure EtherChannel between two switches without using a negotiation protocol?

- A. active
- B. on
- C. auto
- D. desirable

Correct Answer: B

The Static Persistence (or "on" mode) bundles the links unconditionally and no negotiation protocol is used. In this mode, neither PAgP nor LACP packets are sent or received.

QUESTION 14

When OSPF learns multiple paths to a network, how does it select a route?

- A. For each existing interface, it adds the metric from the source router to the destination to calculate the route with the lowest bandwidth.
- B. It counts the number of hops between the source router and the destination to determine the route with the lowest



metric.

C. It divides a reference bandwidth of 100 Mbps by the actual bandwidth of the exiting interface to calculate the route with the lowest cost.

D. It multiplies the active K values by 256 to calculate the route with the lowest metric.

Correct Answer: C

QUESTION 15

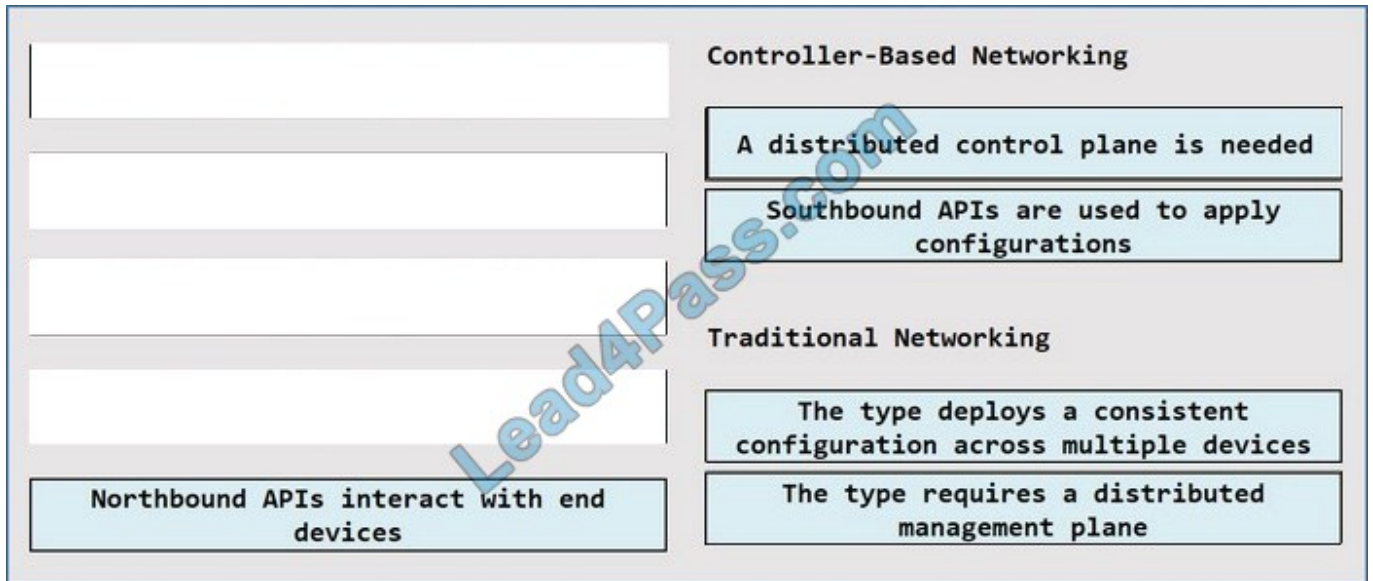
DRAG DROP

Drag and drop the statement about networking from the left into the Corresponding networking types on the right. Not all statements are used.

Select and Place:

<p>The type deploys a consistent configuration across multiple devices</p>	Controller-Based Networking
<p>A distributed control plane is needed</p>	
<p>The type requires a distributed management plane</p>	
<p>Southbound APIs are used to apply configurations</p>	Traditional Networking
<p>Northbound APIs interact with end devices</p>	

Correct Answer:



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