

# Cisco

## Exam 640-875

Building Cisco Service Provider Next-Generation Networks, Part 1 (SPNGN1)

Version: 10.0

[ Total Questions: 144 ]



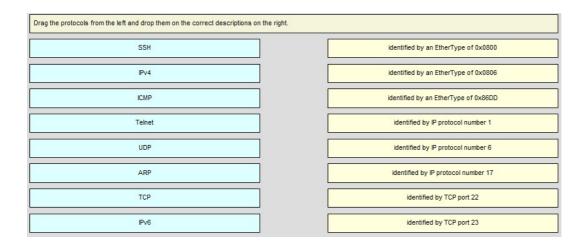
## Topic break down

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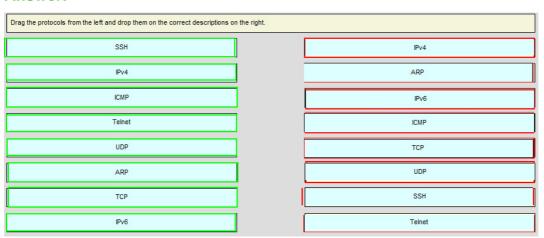


## **Topic 1, IP Networks**

## **Question No: 1 DRAG DROP - (Topic 1)**

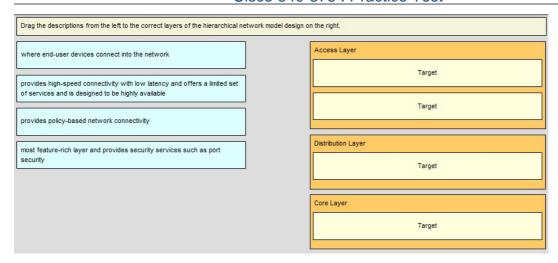


#### **Answer:**

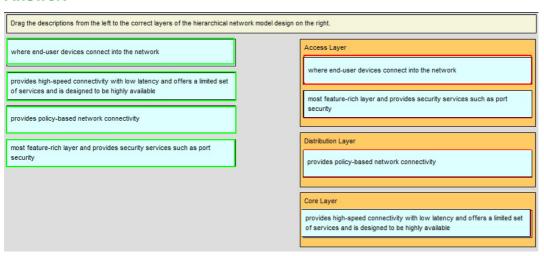


Question No : 2 DRAG DROP - (Topic 1)





#### **Answer:**



## Question No: 3 - (Topic 1)

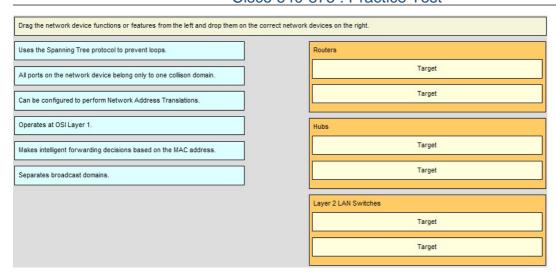
What are two differences between WAN and LAN? (Choose two.)

- **A.** The customer has explicit control of their own WAN.
- **B.** The customer can modify the service provider route distinguishers.
- **C.** The customer has explicit control of their LAN.
- **D.** The customer is aware of the infrastructure within the WAN.
- **E.** WANs will differ from LANs with attributes such as latency and distance.

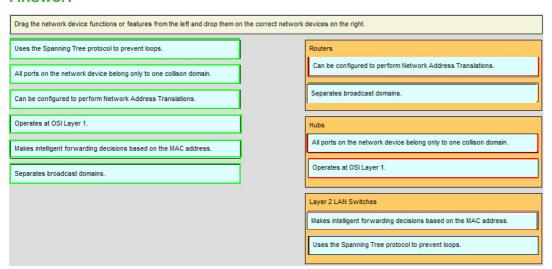
Answer: C,E

**Question No: 4 DRAG DROP - (Topic 1)** 





#### **Answer:**



## Question No : 5 - (Topic 1)

Which of the following correctly pairs the dotted decimal subnet mask with the correct number of binary bits that represent the subnet mask?

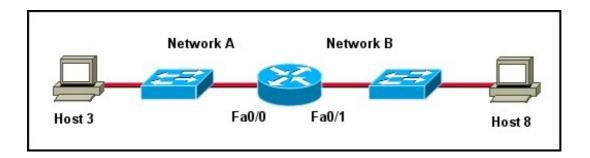
- **A.** 255.255.255.192 and /25
- **B.** 255.255.255.248 and /28
- **C.** 255.255.254 and /26
- **D.** 255.255.255.248 and /27
- **E.** 255.255.255.240 and /28
- **F.** 255.255.255.240 and /16

**Answer: E** 



## Question No: 6 - (Topic 1)

Refer to the exhibit.



Host 3 on Network A is sending data to Host 8 on Network B. Which address is the default gateway of Host 3?

- A. The address of the switch interface that is connected to router interface Fa0/0
- B. The address of the switch interface that is connected to router interface Fa0/1
- C. The address of the host that is connected to Network A
- **D.** The address of the host that is connected to Network B
- **E.** The address of the router interface Fa0/0
- F. The address of the router interface Fa0/1

**Answer: E** 

## Question No: 7 - (Topic 1)

What are two benefits of a star network topology? (Choose two.)

- **A.** Disruption of the entire network is not required when adding new machines.
- **B.** Any problem which leaves the network inoperable can be traced to the central hub.
- **C.** This network type requires less cable as compared to linear bus topology.
- **D.** The performance of one of the numerous nodes cannot reflect on the performance of other nodes.
- **E.** The performance of the entire network is directly dependent on the performance of the hub.

Answer: A,B



## Question No:8 - (Topic 1)

What is the term that refers to a device that has no Customer Equipment directly connected to it in a Service Provider network?

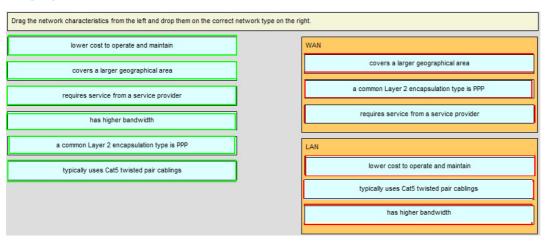
- A. Provider Edge Router
- B. Customer Edge Router
- C. Non-customer Edge Router
- D. Provider Router
- E. Provider Edge Provider Router

**Answer: D** 

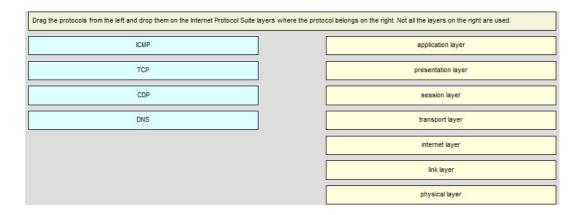
#### Question No : 9 DRAG DROP - (Topic 1)

Drag the network characteristics from the left and drop them on the correct network type on the right.	
lower cost to operate and maintain	WAN
covers a larger geographical area	Target
requires service from a service provider	Target
has higher bandwidth	Target
a common Layer 2 encapsulation type is PPP	LAN
typically uses Cat5 twisted pair cablings	Target
	Target
	Target

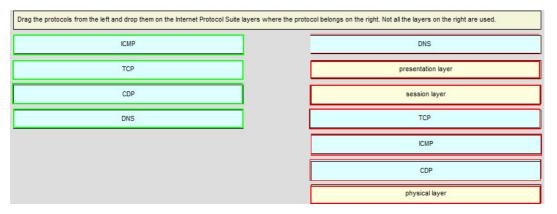
#### **Answer:**



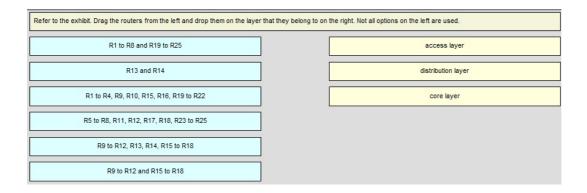
## Question No: 10 DRAG DROP - (Topic 1)



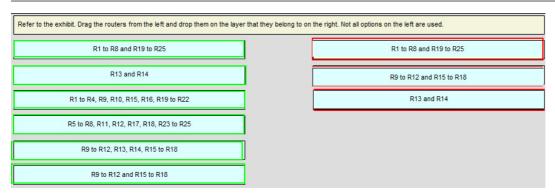
#### **Answer:**



## **Question No: 11 DRAG DROP - (Topic 1)**



#### **Answer:**



#### Question No: 12 - (Topic 1)

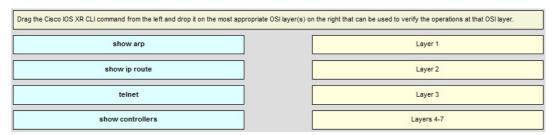
You are having problems browsing to http://www.cisco.com from your laptop that is running Windows. Your laptop is connected directly to a default gateway, which is a Cisco ISR G2 router. Which four options are the basic troubleshooting steps that you should use to troubleshoot this issue? (Choose four.)

- **A.** Issue the ipconfig command from the Windows command line on your laptop to determine your laptop IP address and the default gateway IP address.
- **B.** Issue the ipconfig /all command from the Windows command line on your laptop to determine the DNS server IP address.
- **C.** Issue the ping {default gateway IP address} command from the Windows command line on your laptop to verify connectivity to the default gateway.
- **D.** Issue the ping {DNS server IP address} command from the Windows command line on your laptop to verify connectivity to the DNS server.
- **E.** Issue the ping tcp www.cisco.com 80 command from the Windows command line on your laptop to verify TCP port 80 connectivity to the www.cisco.com server.
- **F.** From the ISR G2 CLI, issue the ping tcp www.cisco.com 80 command to verify TCP port 80 connectivity to the www.cisco.com server.
- **G.** From the ISR G2 CLI, issue the ISR-G2#tracert www.cisco.com command to verify connectivity to the www.cisco.com server.
- **H.** From the ISR G2 CLI, issue the ISR-G2#nslookup www.cisco.com command to determine the IP address of the www.cisco.com server.

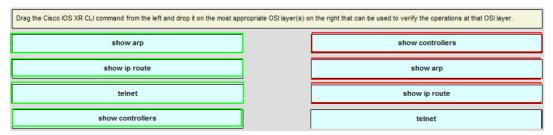
Answer: A,B,C,D

**Question No: 13 DRAG DROP - (Topic 1)** 





#### **Answer:**



## Question No: 14 - (Topic 1)

The PE and CE interfaces are in the UP/UP state. The junior Network Engineer has validated Layer 3 functionality by pinging the adjacent interface, however the customer is unable to access the provider network. What should be your next troubleshooting step?

- **A.** Validate that the encapsulation method is utilizing Point-to-Point Protocol
- B. Validate that the destination customer network is in the correct VRF
- **C.** Validate that the circuit clocking is inaccurate and needs to be synchronized on both sides
- **D.** Check the physical connection between both devices to ensure stability
- E. Identify incorrect RADIUS configuration is present on the PE device
- **F.** Check that an access-list is mis-configured on the loopback 0 interface and needs to be corrected

**Answer: B** 

#### Topic 2, IPv4 and IPv6 Addressing

Question No : 15 DRAG DROP - (Topic 2)