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Building Cisco Service Provider Next-Generation Networks

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QUESTION 1

Which statement about how data is transmitted in a GPON environment is true?

A. Nodes provide optical to electrical conversion between the OLT and the ONTs

B. Optical splitters are used to separate wavelengths assigned to different ONTs

C. Each ONT receives the traffic intended for all ONTs on the same PON

D. The OLT sends traffic to specific ONTs based on an assigned timeslot

Correct Answer: B

QUESTION 2

Refer to the exhibit.

```
ip dhcp excluded-address 192.168.9.0 192.168.10.100
ip dhcp excluded-address 192.168.10.200 192.168.10.255
!
ip dhcp pool LAN
 network 192.168.10.0 255.255.255.0
 default-router 192.168.10.1
 dns-server 192.168.10.5
!
```

How many IP addresses does Router1 have that are available for DHCP clients?

A. 100

B. 99

C. 254

D. 199

Correct Answer: B

QUESTION 3

Which statement about STP operations is true?

A. One root bridge exists per collision domain.
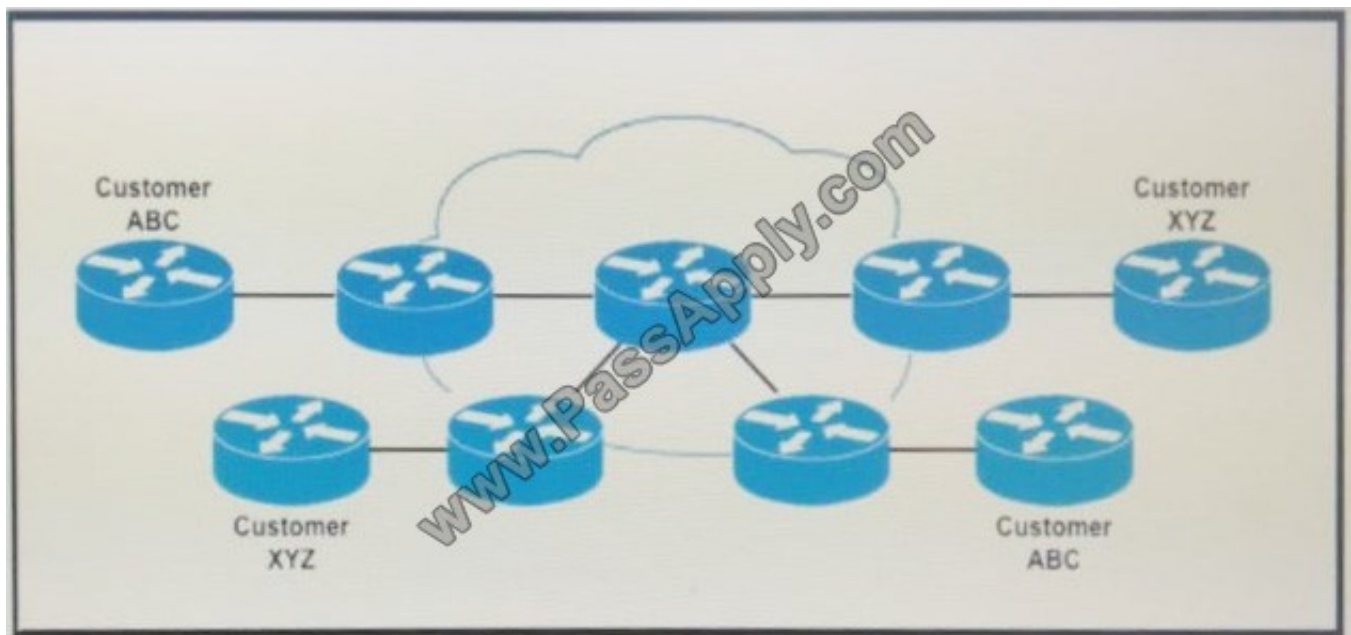
B. One root port is established per root bridge.

C. One designated port is defined per segment.

D. Non-designated ports are set in the forwarding state.

E. One root port exists per broadcast domain.

Correct Answer: C

QUESTION 4

Refer to the exhibit. Which routing protocol can you implement in the cloud to support Cisco MPLS TE operations?

A. RIPv2

B. EIGRP

C. IS-IS

D. IGRP

Correct Answer: C
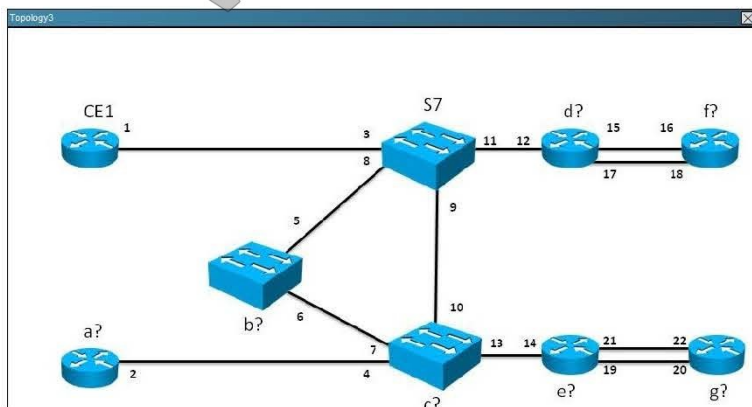
QUESTION 5

Instructions

- Enter the proper CLI show commands and analysis the show outputs on the Cisco devices to answer the multiple-choice questions.
- Not all show commands or show command options are supported or are required in this simulation.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- From the Device CLI Access diagram, click on the network device icons to gain access to the console of the network devices.
- No console or enable passwords are required.
- To access the four multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.
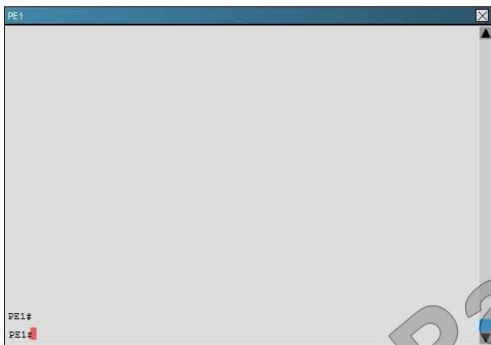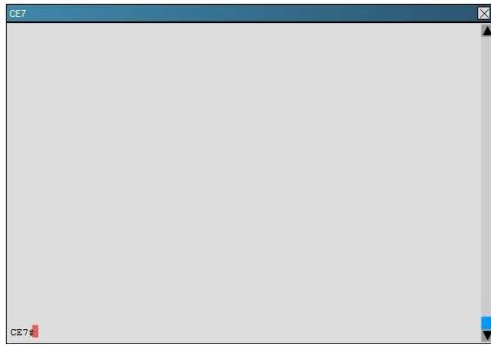
Scenario

Three topology maps are shown. Using the appropriate show commands, map out the network to identify the correct topology map. Once you determine the correct network topology, answer the four multiple choice questions.

Device CLI Access

Click on the switch or router icon to access the device CLI.
Use the appropriate show command to discover and map out the correct network topology.

CE7   CE8

PE1   PE2   PE7   PE8

S78   S8   S7

Click on one of the boxes below to view the actual network topology diagram.
Only one of the network topology diagram is the correct one.

Topology 1   Topology 2   Topology 3

Topology1

Topology2

Topology3

CE7

CE7#

CE8

CE8#

PE1

PE1#
PE1#

PE2

PE2#

PE8

PE8#

```
S78                                                            ☒
                                                               ▲




S78#                                                           ▼
```

```
S8                                                             ☒
                                                               ▲




S8#                                                            ▼
```

```
S7                                                             ☒
                                                               ▲




S7#                                                            ▼
```

Which routers are IOS-XR based (ASR9K) routers?

A. Routers d, f and g only

B. Routers e, f and g only

C. Routers d and e only

D. Routers f and g only

E. Routers d, e, f and g only

Correct Answer: A

Correct network topology is Topology 2

Use "show cdp neighbor" to check and determine the topology.

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