



642-887^{Q&As}

Implementing Cisco Service Provider Next-Generation Core Network Services

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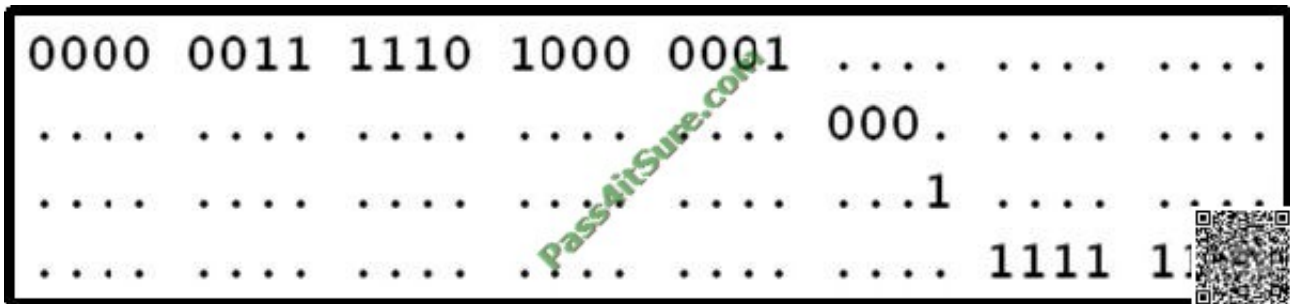
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QUESTION 1



Refer to the exhibit. Based on the raw format of an MPLS header captured by a traffic analyzer, what is the value of the MPLS EXP field?

- A. 1
- B. 255
- C. 5
- D. 29

Correct Answer: C

QUESTION 2

DS-TE implementations on Cisco routers support which bandwidth pool(s) and class type(s)? (Choose two.)

- A. global pool only
- B. subpool only
- C. global pool and subpool
- D. class-type 0 only
- E. class-type 1 only
- F. class-type 0 and class-type 1

Correct Answer: CF

Differential Service Tunnels Differential Service Traffic Engineering (TE) is an extension of the regular MPLS Traffic Engineering (MPLSTE) feature. Regular TE does not provide bandwidth guarantees to different traffic classes. A single bandwidth pool (global pool) is used in regular TE that is shared by all traffic. In order to support various class of service (CoS), the ability to provide multiple bandwidth pools is required. These bandwidth pools then can be treated differently based on the requirement for the traffic class using that pool. In RSVP global and subpools reservable bandwidths are configured on a per interface basis to accommodate TE tunnels on the node. Available bandwidth from all configured bandwidth pools is advertised using Interior Gateway Protocol (IGP). RSVP is used to signal the TE tunnel with appropriate bandwidth pool requirements.

**QUESTION 3**

Scenario: On PE7 which statement is correct regarding the "traffic-policing" policy-map?

Instructions

Enter the proper CLI commands and analysis the outputs on the Cisco routers to answer the multiple-choice questions

From the network topology diagram, click on the router icon to gain access to the console of the router.


No console or enable passwords are required.

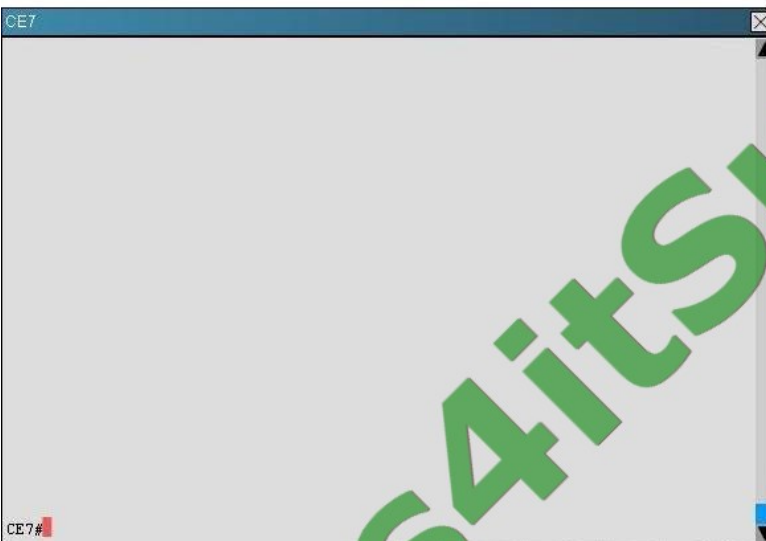
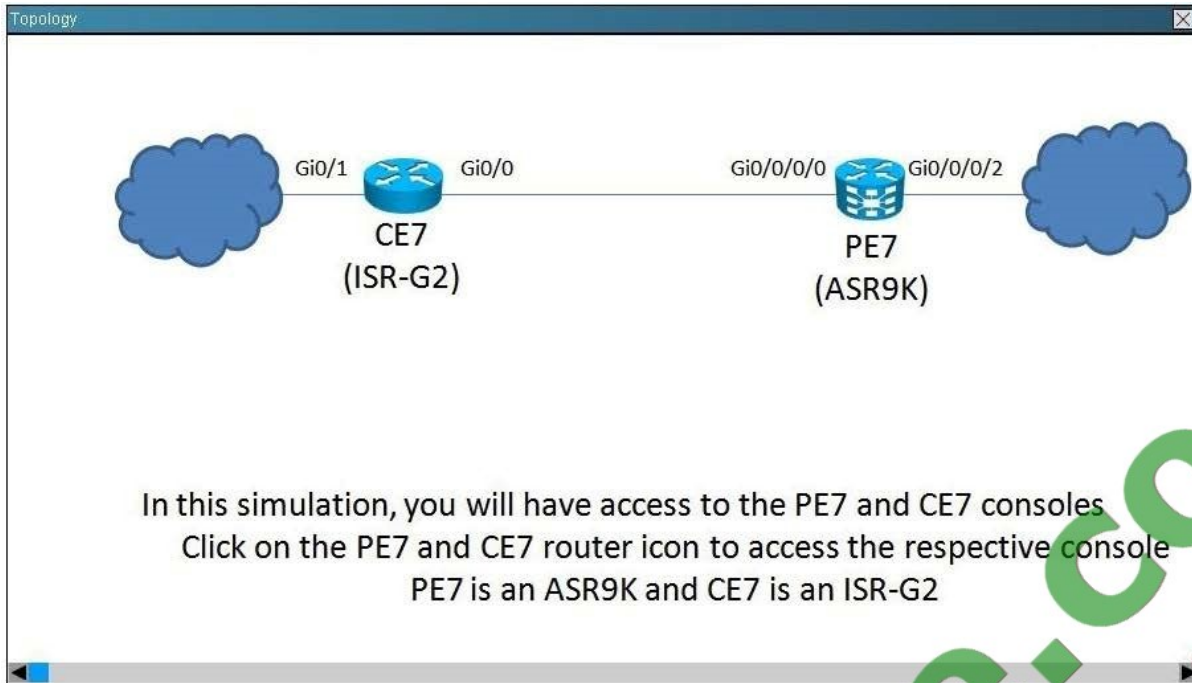
There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Not all the CLI commands or commands options are supported or required for this simulation. All the devices in this simulation have been pre-configured and you are not required to enter in any configurations.

Scenario

Referring to the network topology diagram shown in the exhibit, use the proper CLI commands on the CE7 and PE7 routers and interpret the supported CLI commands outputs to answer the four multiple choice questions.







- A. The "traffic-policing" QoS policy is applied to the Gi0/0/0/0 interface in the outbound direction.
- B. The "traffic-policing" QoS policy will police the traffic matched by the "test12" ACL to 3 mbps and will drop all exceeding traffic.
- C. All incoming traffic not matched by the "test12" ACL to the Gi0/0/0/0 interface will be dropped.
- D. The "traffic-policing" QoS policy is using dual rate class-based traffic policing.

Correct Answer: B

```
#show running-config policy-map #show policy-map
```

QUESTION 4

Which two factors must you consider when configuring MPLS EXP? (Choose two.)

- A. MPLS EXP marking is supported in the egress direction
- B. A packet that IP ToS classifies at ingress can be reclassified by MPLS EXP at egress
- C. MPLS EXP marking is supported in the ingress direction
- D. MPLS EXP classification for bridged MPLS packets on EVCs is supported
- E. A packet that MPLS classifies at ingress can be reclassified by IP ToS at egress

Correct Answer: CE

QUESTION 5

Drag each of the QoS mechanisms on the left to match the correct description on the right. (Not all options on the left are used.)

Select and Place:



Drag each of the QoS mechanisms on the left to match the correct description on the right. (Not all options on the left are used.)

LLQ	Can drop excess traffic beyond the committed rate and remark nonconforming traffic before transmitting it.
LFI	Use to avoid the TCP global synchronization problems that occur when tail drop is used as the congestion avoidance mechanism.
traffic shaping	Provide a strict priority queue to allow delay-sensitive data such as voice to be dequeued and sent first.
WRED	Excess traffic beyond the committed rate will be queued and scheduled for later transmission. Only applied in the output direction.
CBWFQ	
traffic policing	
WFQ	

Correct Answer:

Drag each of the QoS mechanisms on the left to match the correct description on the right. (Not all options on the left are used.)

	traffic policing
LFI	WRED
	LLQ
	traffic shaping
CBWFQ	
WFQ	

QUESTION 6

On a Cisco IOS XR router, which mechanism protects the router resources by filtering and policing the packets flows that are destined to the router that is based on defined flow-type rates?

- A. LLQ
- B. LPTS



- C. Committed Access Rate
- D. Control Plane Policing
- E. Management Plane Protection
- F. NetFlow
- G. ACL

Correct Answer: B

Local Packet Transport Services (LPTS) maintains tables describing all packet flows destined for the secure domain router (SDR), making sure that packets are delivered to their intended destinations. The Low Latency Queueing feature brings strict priority queueing to Class-Based Weighted Fair Queueing (CBWFQ).

QUESTION 7

Which two considerations are important when implementing a Cisco MPLS TE NHOP or NNHOP protection? (Choose two.)

- A. The head-end router requires configuring high priority for the Cisco MPLS TE tunnel.
- B. The head-end router requires configuration for the NHOP or NNHOP protection request to occur.
- C. The reconvergence time must be no longer than 10 seconds.
- D. The Cisco MPLS TE tunnel on the Point of Local Repair implementing protection requires configuration as backup interface.
- E. The tail-end router must be aware of the request for NHOP or NNHOP protection.

Correct Answer: BD

QUESTION 8

Which QoS mechanism is used for congestion avoidance?

- A. LLQ
- B. CBWFQ
- C. WRED
- D. LFI
- E. traffic policing

Correct Answer: C

QUESTION 9



Which method is used to mark traffic matched by class-map MY_CLASS as Expedited Forwarding?

- A. set ip dscp cs7
- B. set dscp cs7
- C. set dscp 46
- D. set dscp 45

Correct Answer: C

QUESTION 10

How is bandwidth recalculated when utilizing the automatic bandwidth adjustment feature for MPLS TE?

- A. The tunnel's output average is periodically sampled and then the bandwidth is adjusted to the largest sample obtained during the period, or to the configured maximum
- B. The tunnel's output is sampled and then the bandwidth is adjusted by a configured percentage until the configured maximum value is reached
- C. Ping is used to measure congestion and the bandwidth is adjusted by a configured percentage until the maximum value is reached
- D. Ping is used to measure congestion and the bandwidth is adjusted to either the minimum, average, or maximum configured bandwidth value

Correct Answer: A

QUESTION 11

Which two options are true regarding the Pipe and Short Pipe MPLS tunneling models? (Choose two.)

- A. In Short Pipe mode QoS is done on the PE-to-CE link based on the customer's PHB markings
- B. In Pipe mode QoS is done on the PE-to-CE link based on the service provider's PHB markings
- C. In Pipe mode QoS is done on the PE-to-CE link based on the customer's PHB markings
- D. In Short Pipe mode QoS is done on the PE-to-CE link based on the service provider's PHB markings
- E. Short Pipe mode does not need MPLS usage, but Pipe mode does

Correct Answer: AB

QUESTION 12

An engineer wants to implement constraint-based routing. Which MPLS application should the engineer use?

- A. unicast IP routing



B. MPLS VPN

C. MPLS TE

D. RSVP

Correct Answer: C

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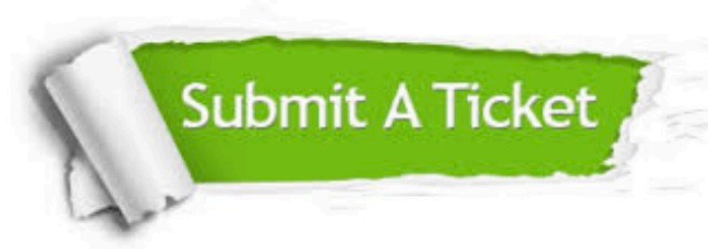
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