642-887^{Q&As}

Implementing Cisco Service Provider Next-Generation Core Network Services

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QUESTION 1

A service provider recently defined new SLA services that provide QoS transparency over MPLS DiffServ-TE services. Which two tunneling modes provide QoS transparency? (Choose two.)

A. short pipe mode

B. uniform mode

C. pipe mode with an explicit NULL LSP

D. pipe mode without a explicit NULL LSP

E. best effort mode

Correct Answer: AC

QUESTION 2

A company asks an engineer to provide an explanation for implementing MPLS DiffServ- TE services. Which option is a DiffServ-TE fundamental concept that should be highlighted?

A. expedited forwarding

B. assured forwarding

C. class of service

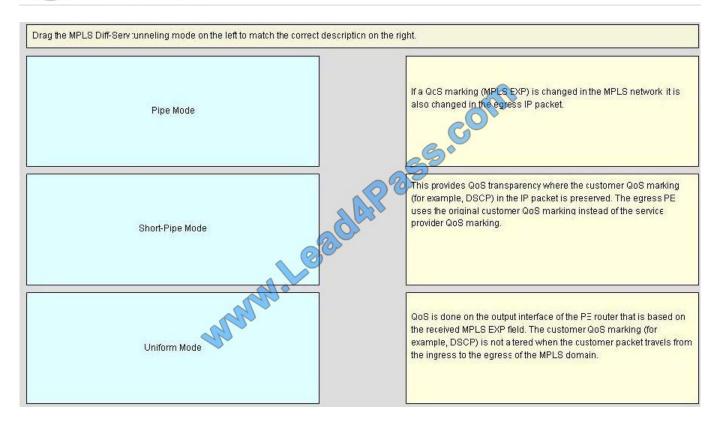D. class types

E. fast reroute

Correct Answer: D

QUESTION 3

Drag the MPLS Diff-Serv tunneling mode on the left to match the correct description on the right.
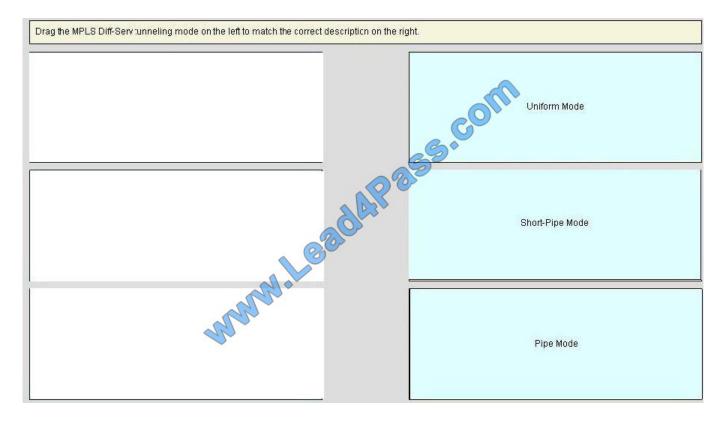
Select and Place:

Drag the MPLS Diff-Serv tunneling mode on the left to match the correct description on the right.

Pipe Mode		If a QoS marking (MPLS EXP) is changed in the MPLS network it is also changed in the egress IP packet.
Short-Pipe Mode		This provides QoS transparency where the customer QoS marking (for example, DSCP) in the IP packet is preserved. The egress PE uses the original customer QoS marking instead of the service provider QoS marking.
Uniform Mode		QoS is done on the output interface of the PE router that is based on the received MPLS EXP field. The customer QoS marking (for example, DSCP) is not altered when the customer packet travels from the ingress to the egress of the MPLS domain.

Correct Answer:

Drag the MPLS Diff-Serv tunneling mode on the left to match the correct description on the right.

		Uniform Mode
		Short-Pipe Mode
		Pipe Mode

QUESTION 4

The Cisco IOS and IOS XE qos pre-classify command allows which kind of packet classification on IP packets that are encapsulated with GRE and IPsec?

A. allows for packets to be classified based on the ToS byte values before packet encryption

B. allows for packets to be classified based on the ToS byte values after packet encryption

C. allows for packets to be classified based on the packet payload before packet encryption

D. allows for packets to be classified based on the packet payload after packet encryption

E. allows for packets to be classified based on the packet header parameters other than the ToS byte values after packet encryption

Correct Answer: A

http://www.cisco.com/en/US/tech/tk543/tk545/technologies_tech_note09186a008017405e. shtml The qos pre-classify command When packets are encapsulated by tunnel or encryption headers, QoS features are unable to examine the original packet headers and correctly classify the packets. Packets traveling across the same tunnel have the same tunnel headers, so the packets are treated identically if the physical interface is congested. With the introduction of the Quality of Service for Virtual Private Networks (VPNs) feature, packets can now be classified before tunneling and encryption occur. In this example, tunnel0 is the tunnel name. The qos pre-classify command enables the QoS for VPNs feature on tunnel0: Router(config)# interface tunnel0 Router(config-if)# qos pre-classify

QUESTION 5

You are configuring MPLS LDP in a new network segment and notice that LDP sessions are discovered but no sessions are established. Which issue is preventing the establishment of the LDP neighbors?

A. The loopback addresses of the label switch routers are unavailable

B. MPLS labels are not allocated for local routers

C. IP Cisco Express Forwarding is disabled on the label switch routers

D. An access link is blocking TCP port 711 on the MPLS routers

Correct Answer: A

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