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Exam : **400-201**

Title : CCIE Service Provider

Version : Demo

1.Which are two benefits of using segment routing over RSVP-TE for traffic engineering? (Choose two)
A. Segment routing traffic engineering tunnels always follow the low-latency path
B. ECMP-aware traffic engineering is natively supported by segment routing
C. Per-flow state is present only at the ingress node to the Segment routing-enabled network
D. Per-flow state is present at the ingress and egress node to the segment routing-enabled network
E. Per-flow state is maintained on all nodes of the segment routing-enabled network
Answer: B, C

2.What is one of the functions of a LISP ingress tunnel router?
A. Ability to integrity-check LISP site registration messages using a SHA2-based HMAC algorithm
B. Responsible for finding EID-to-RLOC mappings for all traffic destined for LISP-capable sites
C. Accept encapsulation Map-request messages, decapsulate them to the MS responsible for the ETR authoritative for the requested EIDs
D. Allows EIDs and RLOCs to communicate in a LISP site that contains EIDs in one address family and RLOCs in a different address family
Answer: B

3.An support engineer has been tasked to protect an ISP infrastructure from the growing number of encrypted DDoS attacks. The solution should also validate the eBGP peering.
Which solution accomplishes these goals?
A. BGP FlowSpec
B. BTSH
C. BGP Route Dampening
D. BGP LS
E. RTBH
Answer: E

4.ISP A provides L2VPN services to Company B through an MPLS network. Company B uses all available CoS values to classify and different traffic forwarding within all Company B sites.
ISP A uses the following CoS values to differentiate service classes for the VPN customer traffic
- MPLS EXP 0 for Bronze service class
- MPLS EXP 1 for Silver service class
- MPLS EXP 2 for Gold service class
- Remaining MPLS EXP values for ISP A internal use

ISP A's policy is to forward VPN customer traffic based only on their Bronze, silver and Gold service classes.
Which QoS method must ISP A implement to achieve this?
A. Short-pipe Mode
B. Russian Doll Model
C. Pipe Mode
D. Uniform Mode
E. Maximum Allocation Model
Answer: D

5.Refer to the exhibit.

```
ipv4 access-list FILTER1 10 permit tcp 10.10.10.0/24 any eq www
ipv4 access-list FILTER1 10 permit tcp 10.10.10.0/24 any eq smtp
!
class-map match-all TEST1
  match access-group ipv4 FILTEP1
end-class-map
class-map match-all TEST2
  match access-group ipv4 FILTEP2
end-class-map
policy-map POL1
  class TEST1
  bandwidth percent 10
  !
  class TEST2
  priority level 1
  police rate percent 10
  !
  class class-default
  !
  end-policy-map
```

An engineer is asked to troubleshoot packet drops inside a network which option is true?

A. HTTP traffic originated by the 10.10.10.0/24 subnet uses up to 10% of the interface bandwidth. However, if no congestion is present, no more bandwidth is allocated to HTTP traffic

B. SMTP traffic originated by the 10.10.10.0/24 subnet uses up to 10% of the bandwidth, however, if no congestion is present, more bandwidth is allocated to SMTP traffic

C. SMTP traffic originated by the 10.10.10.0/24 subnet uses up to 10% of the bandwidth. However, if no congestion is present, SMTP traffic above 10% of link bandwidth is dropped

D. HTTP traffic originated by the 10.10.10.0/24 subnet uses up to 10% of the interface bandwidth. However, if congestion is present, less bandwidth is allocated to HTTP traffic

Answer: C