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Exam Questions 350-501
Implementing and Operating Cisco Service Provider Network Core Technologies
NEW QUESTION 1
Why do Cisco MPLS TE tunnels require a link-state routing protocol?

A. The link-state database provides segmentation by area, which improves the path-selection process.
B. The link-state database provides a data repository from which the tunnel endpoints can dynamically select a source ID.
C. Link-state routing protocols use SPF calculations that the tunnel endpoints leverage to implement the tunnel.
D. The tunnel endpoints use the link-state database to evaluate the entire topology and determine the best path.

Answer: D

NEW QUESTION 2
Refer to the exhibit. Router 1 was experiencing a DDoS attack that was traced to interface gigabitethernet0/1. Which statement about this configuration is true?

A. Router 1 accepts all traffic that ingresses and egresses interface gigabitethernet0/1.
B. Router 1 drops all traffic that ingresses interface gigabitethernet0/1 that has a FIB entry that exits a different interface.
C. Router 1 accepts source addresses that have a match in the FIB that indicates it is reachable through a real interface.
D. Router 1 accepts source addresses on interface gigabitethernet0/1 that are private addresses.

Answer: C

NEW QUESTION 3
You are creating new Cisco MPLS TE tunnels. Which type of RSVP message does the headend router send to reserve bandwidth on the path to the tailend router?

A. path
B. tear
C. error
D. reservation

Answer: A

NEW QUESTION 4
Refer to the exhibit. An engineer is preparing to implement data plane security configuration. Which statement about this configuration is true?

A. Router 1 and Router 2 advertise the route to 192.0.2.0 to all BGP peers.
B. All traffic to 192.168.1.0/24 is dropped.
C. All traffic is dropped.
D. Router 1 drops all traffic with a local-preference set to 150.

Answer: A

NEW QUESTION 5
Which MPLS design attribute can you use to provide Internet access to a major customer through a separate dedicated VPN?

A. The Internet gateway router is connected as a PE router to the MPLS backbone.
B. The CE router supports VRF-Lite and the full BGP routing table.

Answer: B
C. The Internet gateway inserts the full Internet BGP routing table into the Internet access VPN.
D. The customer that needs the Internet access service is assigned to the same RTs as the Internet gateway.

Answer: D

**NEW QUESTION 6**

An engineer working for telecommunication company needs to secure the LAN network using a prefix list. Which best practice should the engineer follow when he implements a prefix list?

A. An engineer must identify the prefix list with a number only.
B. The final entry in a prefix list must be /32.
C. An engineer must include only the prefixes for which he needs to log activity.
D. An engineer must use nonsequential sequence numbers in the prefix list so that he can insert additional entries later.

Answer: D

**NEW QUESTION 7**

A network engineer must enable the helper router to terminate the OSPF graceful restart process if it detects any changes in the LSA. Which command enables this feature?

A. `nsf ietf helper disable`
B. `nsf cisco helper disable`
C. `nsf ietf helper strict-lsa-checking`
D. `nsf cisco enforce global`

Answer: A

**NEW QUESTION 8**

Which two tasks must you perform when you implement LDP NSF on your network? (Choose two.)

A. Enable NSF for BGP.
B. Implement direct connections for LDP peers.
C. Enable NSF for EIGRP.
D. Disable Cisco Express Forwarding.
E. Enable NSF for the link-state routing protocol that is in use on the network.

Answer: BE

**NEW QUESTION 9**

Refer to the exhibit. Which two statements about the IS-IS topology are true? (Choose two.)

A. R1 and R4 are Level 2 neighbors.
B. All four routers are operating as Level 1-2 routers.
C. All four routers are operating as Level 2 routers only.
D. All four routers are operating as Level 1 routers only.
E. R1 and R2 are Level 2 neighbors.

Answer: AB

**NEW QUESTION 10**
Refer to the exhibits. R1 and R2 are directly connected and IS-IS routing has been enabled between R1 and R2. R1 generates the above log message periodically. Based on this output, which statement is true?

A. IS-IS neighbor authentication is failing for Level 2 PDUs only.
B. IS-IS neighbor authentication is failing for Level 2 first and then for Level 1 PDUs.
C. IS-IS neighbor authentication is failing for Level 1 and Level 2 PDUs.
D. IS-IS neighbor authentication is failing for Level 1 PDUs only.

Answer: D

NEW QUESTION 11
DRAG DROP
Drag and drop each NAT64 description from the left onto the correct NAT64 type on the right.

Select and Place:

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area
NEW QUESTION 12
How much must the MTU be increased when configuring the 802.1q VLAN tag?

A. 2 bytes
B. 4 bytes
C. 8 bytes
D. 12 bytes

Answer: B

NEW QUESTION 13
Refer to the exhibit. An engineer is preparing to implement link aggregation configuration. Which statement about this configuration is true?

A. The switch port negotiates an EtherChannel if it receives LACP packets from a connected peer running passive mode.
B. The switch port actively sends packets to negotiate an EtherChannel using PAgP.
C. The switch port passively negotiates an EtherChannel if it receives PAgP packets from a connected peer.
D. The switch port accepts LACP and PAgP packets from a connected peer and negotiate an EtherChannel using the common EtherChannel mode.

Answer: B

NEW QUESTION 14
Which regular expression query modifier function indicates the start of a string?

A. +
B. ^
C. $
D. [^]

Answer: B

NEW QUESTION 15
A router RP is configured to perform MPLS LDP graceful restart. Which three steps are included when the RP sends an LDP initialization message to a neighbor to establish an LDP session? (Choose three.)

A. Learn from Neighbor (N) flag, set to 1
B. Recovery Time field
C. Type-9 LSA
D. Reconnect Timeout field
E. Graceful restart capability in OPEN message
F. Learn from Network (L) flag, set to 1

Answer: BDF

NEW QUESTION 16
Refer to the exhibit. Which statement describes the effect of this configuration?

A. It matches HTTP traffic for use in a policy map.
B. It applies a service policy to all interfaces remarking HTTP traffic.
C. It creates an ACL named WEB that filters HTTP traffic.
D. It modifies the default policy map to allow all HTTP traffic through the router.

Answer: A

NEW QUESTION 17
Refer to the exhibit. A network administrator wants to enhance the security for SNMP for this configuration. Which action can the network administrator implement?

A. Add a community string to the existing entry.
B. Maintain the configuration but switch to an encrypted password for device access through SSH.
C. Re-configure to use SNMPv2 with MD5 authentication.
D. Re-configure to use SNMPv3.

Answer: D

NEW QUESTION 18
Which two uses of the YANG data modeling language are true? (Choose two.)
A. It can be used to model the configuration used by NETCONF operations.
B. It can be used to access a device by HTTP.
C. It can be used to replace the OSI model for troubleshooting.
D. It can be used to shape state data of network elements.
E. It can be used to replace RESTCONF as a mechanism to install and manipulate configuration.

**Answer:** AC

**NEW QUESTION 19**
What do Ansible and SaltStack have in common?

A. They both have agents running on the client machine.
B. They both can be designed with more than one master server.
C. They both use DSL configuration language.
D. They both use YAML configuration language.

**Answer:** D

**NEW QUESTION 20**
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