Cisco

Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies

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NEW QUESTION 1
Which component is similar to an EVPN instance?

A. router distinguisher
B. MPLS label
C. IGP router ID
D. VRF

Answer: D

NEW QUESTION 2
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 3

Refer to the exhibit. BGPsec is implemented on R1, R2, R3, and R4. BGP peering is established between neighboring autonomous systems. Which statement about implementation is true?

A. BGP updates from the iBGP peers are appended with a community of local-as.
B. BGP updates from the all BGP peers are appended with a community of no-export.
C. BGP updates from the eBGP peers are appended with an additional AS path value that is statically set by the domain administrator.
D. BGP updates from the eBGP peers are appended with a BGPsec attribute sequence that includes a public key hash and digital signature.

Answer: D

NEW QUESTION 4
You are configuring MPLS traffic-engineering tunnels in the core. Which two ways exist for the tunnel path across the core? (Choose two.)

A. The dynamic path option is supported only with IS-IS.
B. Tunnels can be configured with dynamic path or explicitly defined path.
C. A zero bandwidth tunnel is not a valid option.
D. The bandwidth statement creates a "hard" reservation on the link.
E. Tunnel links inherit IGP metrics by default unless overridden.

Answer: BE

NEW QUESTION 5
Which configuration mode do you use to apply the mpls ldp graceful-restart command in IOS XE Software?

A. MPLS LDP neighbor
B. interface
C. MPLS
D. global

Answer: D

NEW QUESTION 6

Refer to the exhibits. Which information is provided for traceback analysis when this configuration is applied?

A. source interface
B. packet size distribution
C. IP sub flow cache
D. BGP version

Answer: C

NEW QUESTION 7
Refer to the exhibit. R1 is connected to two service providers and is under a DDoS attack.
Which statement about this design is true if URPF in strict mode is configured on both interfaces?

A. R1 drops all traffic that ingresses either interface that has a FIB entry that exits a different interface.
B. R1 drops destination addresses that are routed to a null interface on the router.
C. R1 permits asymmetric routing as long as the AS-PATH attribute entry matches the connected AS.
D. R1 accepts source addresses on interface gigabitethernet0/1 that are private addresses.

Answer: A

NEW QUESTION 8
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 9
An engineer is setting up overlapping VPNs to allow VRF ABC and XYZ to communicate with VRF CENTRAL but wants to make sure that VRF ABC and XYZ cannot communicate. Which configuration accomplishes these objectives?

A.

B.

C.

D.

Answer: B

NEW QUESTION 10
Refer to the exhibit. Which effect of this configuration is true?

A. It enables MPLS on the interface.
B. It creates a pseudowire class named cisco.
C. It enables AToM on interface gigabitethernet1/0.
D. It enables tagging for VLAN 12 on the interface.

Answer: C

NEW QUESTION 10

Refer to the exhibit. Which three outcomes occur if the prefix list is added to the neighbor? (Choose three.)

A. 192.168.0.0/16 is denied.
B. 192.168.0.0/16 is permitted.
C. 192.168.0.0/19 is permitted
D. 192.168.0.0/19 is denied.
E. 192.168.0.0/17 is permitted
F. 192.168.0.0/17 is denied.

Answer: ACF

NEW QUESTION 15
Which task must be performed first to implement BFD in an IS-IS environment?

A. Configure BFD in an interface configuration mode.
B. Disable Cisco Express Forwarding on all interfaces running routing protocols other than IS-IS.
C. Configure all IS-IS routers as Level 2 devices.
D. Configure BFD under the IS-IS process.

Answer: D

NEW QUESTION 19
Which two IS-IS parameters must match before two Level 2 peers can form an adjacency? (Choose two.)

A. hello timer setting
B. authentication settings
C. area ID
D. system ID
E. MTU

Answer: BE

NEW QUESTION 20

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 22
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:

NEW QUESTION 24

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 27
How can shared services in an MPLS Layer 3 VPN provide Internet access to the Customers of a central service provider?

A. Static routes on CE routers allow route leakage from a PE global routing table.
B. The CE router can establish a BGP peering to a PE router and use the PE device to reach the Internet.
C. The customer VRF uses route targets to import and export routes to and from a shared services VRF.
D. Route distinguishers are used to identify the routes that CEs can use to reach the Internet.

Answer: C

NEW QUESTION 31

Refer to the exhibit Which effect of this configuration is true?

A. R1 can support a peer that is configured for LDP SSO/NSF as the peer recovers from an outage.
B. R1can support a graceful restart operation on the peer, even if graceful restart is disabled on the peer.
C. R1 can failover to any peer.
D. R1 can failover only to a peer that is configured for LDF SSO/NSF.

Answer: A

NEW QUESTION 36

Refer to the exhibit. With which router does IOSXRV-1 have LDP session protection capability enabled but session hold up is not active?

A. 192.168.0.4
B. 192.168.0.5
C. 192.168.0.1
D. 192.168.0.3

Answer: B

NEW QUESTION 41
When configuring traffic engineering tunnels in Cisco MPLS core network, you see the traffic is not tacking the expected path in the core.

Which command do you use to quickly check path of a TE tunnel?

A. traceroute <tunnel destination IP>
B. show mpls traffic-engineering tunnels
C. Ping <tunnel destination IP>
D. traceroute mpls ipv4 <tunnel destination>

Answer: D

NEW QUESTION 46

Refer to the exhibit. After implementing a new design for the network, a technician reviews the pictures CLI output as part of the MOP. Which two elements describe what the technician can ascertain from the ImpNull output? (Choose two.)

A. Ultimate Hop Popping is in use for the prefix displayed.
B. Penultimate Hop Popping is in use for the prefix displayed.
C. Label 0 is used for the prefix displayed, but will not be part of the MPLS label stack for packets destined for 192.168.10.10.
D. Label 3 is in use for the prefix displayed and will be part of the MPLS label stack for packets destined for 192.168.10.10.
E. Label 0 is used for the prefix displayed and will be part of the MPLS label stack for packets destined for 192.168.10.10.

Answer: BE

NEW QUESTION 50

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 53

Refer to the exhibit. A network engineer is implementing a BGP routing policy. Which effect of this configuration is true?

A. All traffic that matches acl10 is allowed without any change to its local-preference.
B. All traffic that matches acl10 is dropped without any change to its local-preference.
C. If traffic matches acl10, it is allowed and its local-preference is set to 300.
D. All traffic is assigned a local-preference of 300 regardless of its destination.

Answer: A

NEW QUESTION 56

Refer to the exhibit. If router RA is configured as shown, which IPv4 multicast address space does it use?

A. 224.0.0.0/8
B. 225.0.0.0/8
C. 232.0.0.0/8
D. 239.0.0.0/8

Answer: C

NEW QUESTION 59
Refer to the exhibit. Which command is used to complete this configuration for QoS class-based marking?

A. PE-A(config-pmap-c)#set dscp ef
B. PE-A(config-pmap-c)#priority
C. PE-A(config-pmap-c)#random-detect
D. PE-A(config-pmap-c)#fair-queue

Answer: A

NEW QUESTION 64

Refer to the exhibit. What is significant about the number 2 in the configuration?

A. It indicates two SNMP managers can read and write with the agent using community string ciscotest.
B. It dictates the number of sessions that can be open with the SNMP manager.
C. It is the numeric name of the ACL that contains the list of SNMP managers with access to the agent.
D. It represents the version of SNMP running.

Answer: C

NEW QUESTION 65
How can a network administrator secure rest APIs?

A. They can have a general administrator login for multiple users to access that has command entries logged.
B. They can authenticate user sessions and provide the appropriate privilege level.
C. They can ensure that user sessions are authenticated using TACACS+ only.
D. They can allow read and write privileges to all users.

Answer: B

NEW QUESTION 66
What is the difference between SNMP and model- driven telemetry?

A. SNMP uses the YANG data modeling language.
B. Telemetry uses traps and inform messages to deliver data to a network administrator on a polling basis.
C. Telemetry allows for modeled network data to be pushed to the network administrator on an as-needed basis.
D. SNMP pushes network data to the network administrator whenever it is queried.

Answer: C

NEW QUESTION 68
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 71
Which service is a VNF role?

A. Network
B. Firewall
C. Storage
D. Compute

Answer: A

NEW QUESTION 75
Refer to the exhibit. What is the URL used for with REST API?

A. It is used to initiate an FTP session to save a running configuration of a device.
B. It is used to send a message to the APIC to perform an operation on a managed object or class operator.
C. It is used to contact a URL filter to determine the efficacy of a web address.
D. It is used to send a TACACS + authentication request to a server.

Answer: B

NEW QUESTION 77
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 81

Refer to the exhibit. What does this value mean when it is received in XML?

A. It indicates a value assigned by a network administrator to tag a route.
B. It indicates a break in a sequence.
C. It means a data field is blank.
D. It shows the ending of the script.

Answer: D

NEW QUESTION 82
Which statement about Network Services Orchestrator (NSO) is true?

A. It must use SDN as an overlay for addressing.
B. It uses YANG modeling language to automate devices.
C. It is used only in service provider environments.
D. It can be used only with XML coding.

Answer: B

NEW QUESTION 83
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