

# Cisco

## Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies



#### 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

Which statement about the Cisco MPLS TE forwarding adjacency feature is true?

- A. It enables the MPLS core to use EIGRP as the routing protocol.
- B. It enables the Cisco MPLS TE tunnel to be advertised into the running IGP.
- C. It enables the tailend router to advertise routes to the headend router over the tunnel.
- D. It enables the headend and tailend routers to establish a bidirectional tunnel.

**Answer: B**

#### NEW QUESTION 3

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 4

Which statement describes the advantage of a Multi-Layer control plane?

- A. It provides multivendor configuration capabilities for Layer 3 to Layer 1.
- B. It automatically provisions, monitors, and manages traffic across Layer 0 to Layer 3.
- C. It supports dynamic wavelength restoration in Layer 0.
- D. It minimizes human error configuring converged networks.

**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.
- 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

Which configuration enables BGP FlowSpec client function and installation of policies on all local interfaces?

- A. flowspec address- family ipv4 local-install interface-all
- B. flowspec address- family ipv4 install interface-all local
- C. flowspec address- family ipv4 install interface-all
- D. flowspec address- family ipv4 local-install all-interface

**Answer: A**

#### NEW QUESTION 7

Refer to the exhibit. A network engineer is configuring customer edge routers to finalize a L2VPN over MPLS deployment. Assume that the AToM L2VPN service that connects the two CEs is configured correctly on the service provider network. Which action causes the solution to fail?

- A. OSPF does not work with L2VPN services.
- B. The routing protocol network types are not compatible.
- C. A loopback with a /32 IP address has not been used.
- D. The xconnect statement has not been defined.

**Answer: B**

#### **NEW QUESTION 8**

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 9**

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. In which way does router R1 operate differently than router R2?

- A. R1 sends LSA types 5 and 7, while R2 sends type 1, 2, and 7 LSAs.
- B. R1 sends LSA type 2 only, while R2 sends type 1 and type 7 LSAs.
- C. R1 sends LSA type 2 only and R2 sends LSA type 1 only.
- D. R1 sends LSA types 1 and 2, while R2 sends type 1,2, and 7 LSAs.

**Answer: D**

#### **NEW QUESTION 10**

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 12**

Which three OSPF parameters must match before two devices can establish an OSPF adjacency? (Choose three.)

- A. IP address
- B. subnet mask
- C. interface cost
- D. process ID
- E. area number
- F. hello timer setting

**Answer: BEF**

#### **NEW QUESTION 17**

Refer to the exhibit. Which statement about the status of the neighbor relationship between R1 and R2 is true?

- A. The neighbor relationship is down because the two routers are configured with different area types.
- B. The neighbor relationship is down because the two routers are in the same subnet.
- C. The neighbor relationship is up because R2 is level 1 and level 2 router.
- D. The neighbor relationship is down because R2 is operating as a Level 1 router and the two routers are in different areas.

**Answer: A**

#### **NEW QUESTION 22**

Refer to the exhibit. Assume all other configurations are correct and the network is otherwise operating normally. Which conclusion can you draw about the neighbor relationship between routers R1 and R2?

- A. The neighbor relationship is up.
- B. The neighbor relationship will be up only if the two devices have activated the correct neighbor relationships under the IPv4 address family.
- C. The neighbor is down because the local-as value for R2 is missing in the R1 neighbor statement.
- D. The neighbor relationship is down because R1 believes R2 is in AS 65012.

**Answer: D**

#### **NEW QUESTION 26**

Refer to the exhibit Router R1 and its peer R2 reside on the same subnet in the network. If an engineer implements this configuration to R1, how does it make connections to R2?

- A. R1 establishes TCP connections that are authenticated with a clear-text password.
- B. R1 establishes UDP connections that are authenticated with an MD5 password.
- C. R1 establishes UDP connections that are authenticated with a clear-text password.
- D. R1 establishes TCP connections that are authenticated with an MD5 password.

**Answer: D**

#### **NEW QUESTION 27**

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 32**

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. R1 can 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 33**

You are testing the capabilities of MPLS OAM ping. Which statement is true?

- A. An LSP is not required for the reply to reach the ingress MPLS router.
- B. An LSP breakage results in the ingress MPLS router never receiving any reply.
- C. MPLS OAM ping works solely with P2P LSPs.
- D. MPLS OAM ping works solely with Cisco MPLS TE.

**Answer: B**

#### **NEW QUESTION 36**

Refer to the exhibit. Which statement about this configuration is true?

- A. It requires a dynamic Cisco MPLS TE path to be configured for the tunnel to run.
- B. It requires OSPF to also be running to have optimized Cisco MPLS TE tunnels.
- C. It is the configuration for the head-end router of a Cisco MPLS TE tunnel with segment routing.
- D. It requires an explicit Cisco MPLS TE path to be configured for the tunnel to run.

**Answer: C**

#### **NEW QUESTION 37**

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 40**

Refer to the exhibit. A network engineer is implementing QoS services. Which two statements about the qos-group keyword on Cisco IOS XR are true? (Choose two.)

- A. It marks packets for end-to-end QoS policy enforcement across the network.
- B. QoS group marking occurs on the ingress.
- C. The QoS group numbering corresponds to priority level.
- D. QoS group can be used in fabric QoS policy as match criteria.
- E. It cannot be used with priority traffic class.

**Answer: BD**

#### **NEW QUESTION 42**

Refer to the exhibit. You are configuring an administrative domain in the given multi-vendor environment with PIM-SM. Which feature can you implement so that devices can dynamically learn the RP?

- A. BSR
- B. BIDIP-PIM
- C. Auto-RP
- D. SSM

**Answer: C**

#### **NEW QUESTION 47**

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 48

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 52

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 53

Refer to the exhibit. If the NetFlow configuration is updated to version 9, which additional piece of information can be reported?

- A. IPv4 flow information
- B. BGP AS information
- C. IPv6 flow information
- D. flow sequence numbers

**Answer: C**

#### NEW QUESTION 57

Which service is a VNF role?

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

**Answer: A**

#### NEW QUESTION 59

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 64

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 66

Refer to the exhibit. This output is included at the end of an output that was provided by a device using NETCONF. What does the code show?

- A. It shows that the full configuration is being modeled by YANG.
- B. It shows NETCONF uses remote procedure calls.
- C. It shows the hostname of the device as rpc-reply.
- D. It shows that the running configuration is blank.

**Answer: B**

#### NEW QUESTION 70

Refer to the exhibit. Which statement describes this configuration?

- A. Router 1 has a new data store to collect SNMP information, but configuration must still be done at the CLI only.
- B. Router 1 can be remotely managed by the CLI using Telnet.
- C. Router 1 has its running configuration locked so changes can be made only when the administrator issues a kill session.
- D. Router 1 has a temporary data store where a copy of the running configuration can be manipulated and verified before committing the configuration.

**Answer: D**

#### **NEW QUESTION 74**

Refer to the exhibit. This configuration is being applied on an IOS XR route. Which statement about this configuration is true?

- A. It is used to create a sensor-group and has a list of YANG models for streaming.
- B. It is used to create a subscription to specify the streaming interval.
- C. It is used to identify MIB entries and has a list of YANG models.
- D. It is used to identify traps for SNMP polling.

**Answer: A**

#### **NEW QUESTION 78**

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