Vendor: Cisco

Exam Code:351-001

Exam Name:CCIE Routing and Switching Written

Version: Demo

QUESTION 1

Which statement is true about PIM?

A. PIM SM uses shared trees.

B. In Bidir-PIM, sources register to RP as in PM SM.

C. The PIM DM flood and prune process is repeated every five minutes.

D. PIM SM mode, by default, always forwards multicast traffic on shared tree.
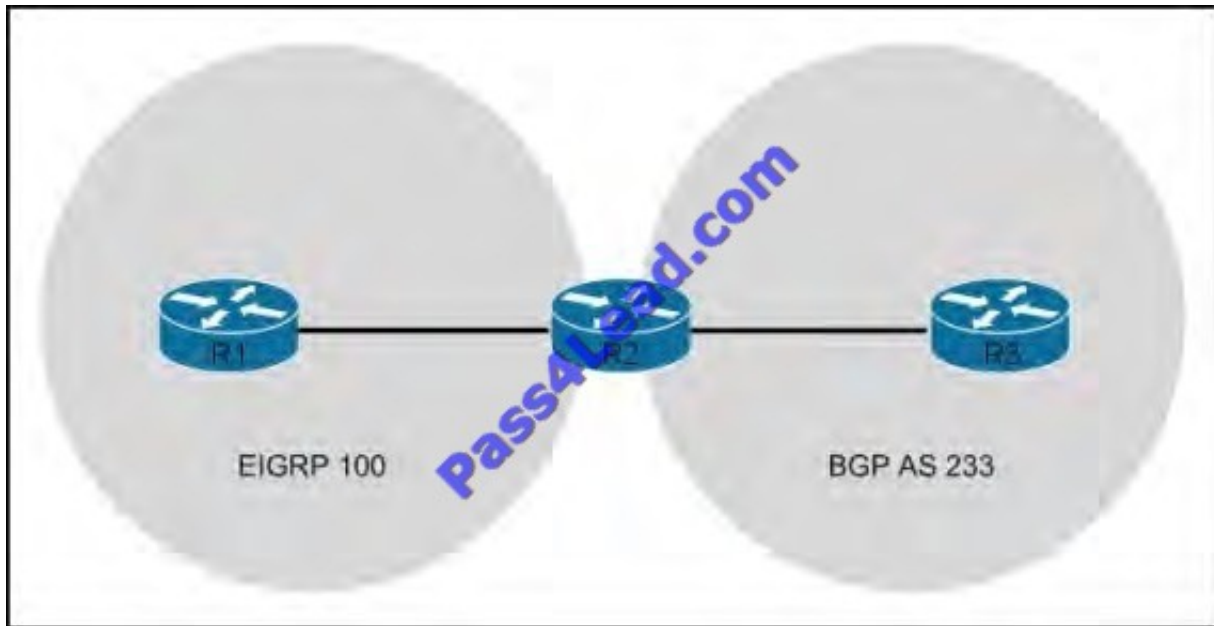
Correct Answer: A

QUESTION 2

Which two options are contained in the MSG part of a syslog message? (Choose two.)

A. TAG field

B. CONTENT field

C. three-digit priority value

D. IP address of the sending device

E. TLS port number

Correct Answer: AB

QUESTION 3

Refer to the exhibit.

EIGRP 100   BGP AS 233

R2 is mutually redistributing between EIGRP and BGP.

Which configuration is necessary to enable R1 to see routes from R3?

A. The R3 configuration must include ebgp-multihop to the neighbor statement for R2.

B. The R2 BGP configuration must include bgp redistribute-internal.

C. R1 must be configured with next-hop-self for the neighbor going to R2.

D. The AS numbers configured on R1 and R2 must match.

Correct Answer: B

Whenever you redistribute from BGP to something else, BGP will only advertise externally learned routes. To allow the redistribution of iBGP routes into an interior gateway protocol such as EIGRP or OSPF, use the bgp redistribute-internal command in router configuration mode.

QUESTION 4

In an MPLS VPN, which router attaches VPN labels to packets?

A. PE

B. C

C. CE

D. P

Correct Answer: A

QUESTION 5

```
interface Tunnel0
 ip address 172.16.1.2 255.255.255.0
 ip nhrp map 172.16.1.1 192.168.1.1
 ip nhrp network-id 1
 ip nhrp nhs 172.16.1.1
 tunnel source 192.168.2.2
 ip mtu 1416
```

Refer to the exhibit.

What is wrong with the configuration of the tunnel interface of this DMVPN Phase II spoke router?

A. The interface MTU is too high.

B. The tunnel destination is missing.

C. The NHRP NHS IP address is wrong.

D. The tunnel mode is wrong.

Correct Answer: D

By default, tunnel interfaces use GRE as the tunnel mode, but a DMVPN router needs to be configured for GRE multipoint by using the "tunnel mode gre multipoint" interface command.

QUESTION 6

Which two tasks are required for configuring SNMP to send traps on a Cisco IOS device? (Choose two.)

A. Create access controls for an SNMP community.

B. Configure SNMP notifications.

C. Configure the SNMP agent.

D. Configure SNMP status monitoring and troubleshooting.

E. Configure SNMP server group names.

F. Configure the SNMP server engine ID.

Correct Answer: AB

The best current practices recommend applying Access Control Lists (ACLs) to community strings and ensuring that the requests community strings are not identical to notifications community strings. Access lists provide further protection

when used in combination with other protective measures.

This example sets up ACL to community string:

access-list 1 permit 1.1.1.1 snmp-server community string1 ro 1 SNMP Notifications

A key feature of SNMP is the ability to generate notifications from an SNMP agent. These notifications do not require that requests be sent from the SNMP manager. Unsolicited (asynchronous) notifications can be generated as traps or inform

requests. Traps are messages alerting the SNMP manager to a condition on the network. Inform requests (informs) are traps that include a request for confirmation of receipt from the SNMP manager. Notifications can indicate improper user

authentication, restarts, the closing of a connection, loss of connection to a neighbor router, or other significant events.

Reference:

http://www.cisco.com/c/en/us/td/docs/ios/12_2/configfun/configuration/guide/ffun_c/fcf014.h tml#wp1007320

QUESTION 7

Which two statements about Cisco IOS software and Cisco IOS-XE software are true? (Choose two)

A. The process IOSd on Cisco IOS-XE software runs all routing protocols.

B. Cisco IOS-XE software is based on a monolithic architecture.

C. Cisco IOS software allows processes to use different CPU cores.

D. Cisco IOS-XE software uses a hardened BSD version as the base OS.

E. Cisco IOS-XE software utilizes a separate control and forwarding plane.

Correct Answer: AE

QUESTION 8

DRAG DROP

Drag and drop the NAT operations on the left into the correct sequential order on the right.

Select and Place:

Drag and drop the NAT operations on the left into the correct sequential order on the right.	
Check the IP routing table.	step 1
Check the outbound access list.	step 2
Check the inbound access list	step 3
Inspect CBAC.	step 4
Translate inside local to outside global.	step 5
Check the policy routing	step 6

Correct Answer:

	Check the inbound access list.
	Check the policy routing
	Check the IP routing table.
	Translate inside local to outside global.
	Check the outbound access list.
	Inspect CBAC.

Drag and drop the NAT operations on the left into the correct sequential order on the right.
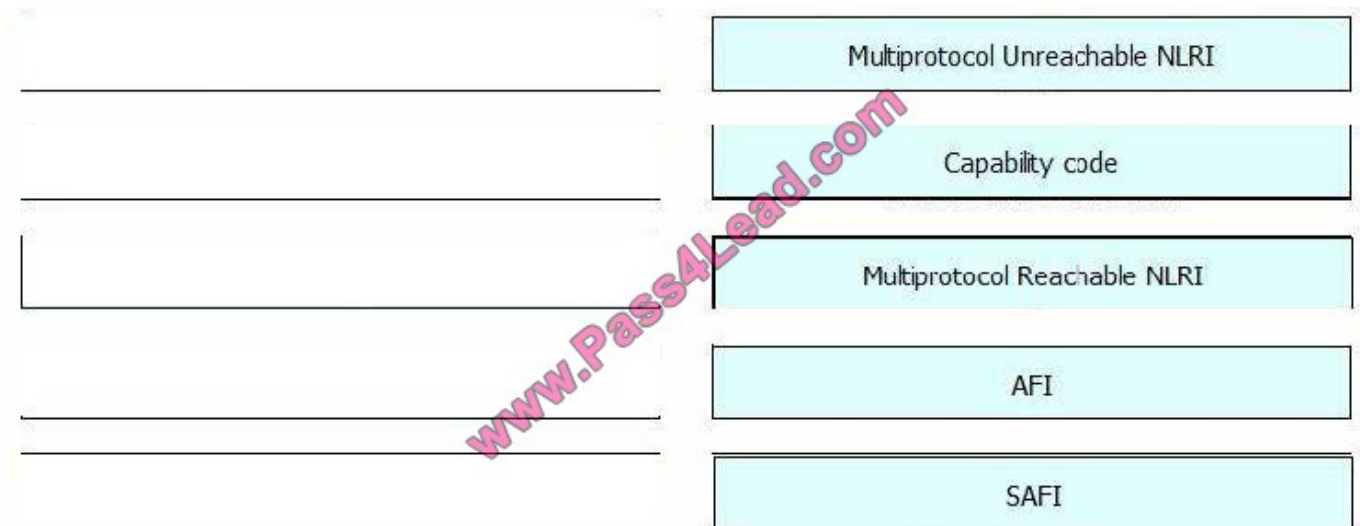

QUESTION 9

DRAG DROP

Drag and drop the multiprotocol BGP feature on the left to the corresponding description on the right.

Select and Place:

Multiprotocol Reachable NLRI	an optional, nontransitive attribute used to withdraw a route
Multiprotocol Unreachable NLRI	a value that indicates whether multiprocol extensions are supported
AFI	an optional, nontransitive attribute used to advertise a
SAFI	a value that identifies a network protoco
Capability code	a value that identifies a subtype of network protocol

Correct Answer:

	Multiprotocol Unreachable NLRI
	Capability code
	Multiprotocol Reachable NLRI
	AFI
	SAFI

QUESTION 10

Which two actions can you take to allow the greatest number of pertinent packets to be stored in the temporary buffer of Cisco IOS Embedded Packet Capture? (Choose two.)

A. Specify the sampling interval.

B. Specify the capture buffer type.

C. Specify a reflexive ACL.

D. Specify the minimum packet capture rate.

E. Specify the packet size.

F. Store the capture simultaneously onto an external memory card as the capture occurs.

Correct Answer: AB

Embedded Packet Capture (EPC) provides an embedded systems management facility that helps in tracing and troubleshooting packets. This feature allows network administrators to capture data packets flowing through, to, and from a Cisco device. The network administrator may define the capture buffer size and type (circular, or linear) and the maximum number of bytes of each packet to capture. The packet capture rate can be throttled using further administrative controls. For example, options allow for filtering the packets to be captured using an Access Control List and, optionally, further defined by specifying a maximum packet capture rate or by specifying a sampling interval.

Reference: http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/epc/configuration/xe- 3s/asr1000/epc-xe-3s-asr1000-book/nm-packet-capture-xe.html

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QUESTION 11

Which three protocols can use enhanced object tracking? (Choose three.)

A. HSRP

B. Proxy-ARP

C. VRRP

D. GLBP

E. NTP

F. DHCP

Correct Answer: ACD

The Enhanced Object Tracking feature separates the tracking mechanism from HSRP and creates a separate standalone tracking process that can be used by other processes and HSRP. This feature allows tracking of other objects in addition to the interface line-protocol state. A client process such as HSRP, Virtual Router Redundancy Protocol (VRRP), or Gateway Load Balancing Protocol (GLBP), can register its interest in tracking objects and then be notified when the tracked object changes state.

Reference: http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipapp/configuration/15-mt/iap- 15-mt-book/iap-eot.html

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QUESTION 12

Which two statements about SoO checking in EIGRP OTP deployments are true? (Choose two).

A. During the import process, the SoO value in BGP is checked against the SoO value of the site map.

B. During the reception of an EIGRP update, the SoO value in the EIGRP update is checked against the SoO value of the site map on the ingress interface.

C. At the ingress of the PE/CE link, the SoO in the EIGRP update is checked against the SoO within the PE/CE routing protocol.

D. At the egress of the PE/CE link, the SoO is checked against the SoO within the PE/CE routing protocol.

E. The SoO is checked at the ingress of the backdoor link.

F. The SoO is checked at the egress of the backdoor link.

Correct Answer: AB

?SoO checking: ?During the import process the SoO value in BGP update is checked against the SoO value of the site-map attached to VRF interface. The update is propagated to CE only if there is no match (this check is done regardless of protocol used on PE/CE link). ?At reception of EIGRP update, the SoO value in the EIGRP update is checked against the SoO value of site-map attached to the incoming interface. This update is accepted only if there is no match (this check can optionally be done on backdoor router). Reference: http://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ip- routing/whitepaper_C11-730404.html

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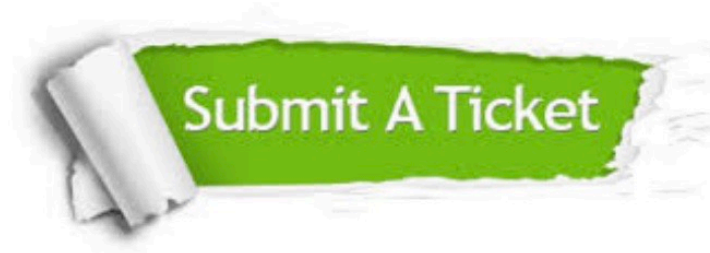
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