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QUESTION 21 ISPs use which protocol to establish peering sessions in an Internet exchange point environment? A. LDP B. IS-IS C. BGP D. OSPF Answer: C

QUESTION 22 You are enabling OSPF on a router and notice that all the Fast Ethernet and the Gigabit Ethernet interfaces have the same OSPF cost of 1. Which single configuration change can you make in router ospf configuration mode so that the Fast Ethernet interfaces have a higher OSPF cost than the Gigabit Ethernet interfaces? A. Change the OSPF interface cost globally. B. Change the OSPF default metric. C. Change the OSPF auto-cost reference bandwidth. D. Change the OSPF administrative distance. E. Change the OSPF metric type from E2 to E1. Answer: C

QUESTION 23 On Cisco IOS XR software, which set of commands enables OSPF area 0 on the Gi0/0/0/0 interface that has an IPv4 IP address of 192.168.1.1/24? A. router ospf 1 network 192.168.1.1 0.0.0.0 area 0 B. router ospf 1 network 192.168.1.1 255.255.255.255 area 0 C. router ospf 1 area 0 interface gi0/0/0/0 D. router ospfv3 1 network 192.168.1.1 0.0.0.0 area 0 E. router ospfv3 1 network 192.168.1.1 255.255.255.255 area 0 F. router ospfv3 1 area 0 network 192.168.1.0 G. router ospfv3 1 area 0 interface gi0/0/0/0 Answer: C

QUESTION 24 Which three statements about OSPFv2 or OSPFv3 authentication are true? (Choose three.) A. On Cisco IOS XR platforms, OSPFv3 authentication can be configured at the OSPF routing process, area, or interface level. B. OSPF authentication on Cisco IOS and IOS XE platforms can be configured per area or per interface. C. On Cisco IOS and IOS XE and IOS XR platforms, the authentication key can only be configured per interface. D. OSPFv3 uses IPsec for authentication and encryption. E. On Cisco IOS XR platforms, the OSPF authentication that is configured for the area overrides the authentication that is configured for the interface. F. On Cisco IOS and IOS XE platforms, the two OSPFv2 authentication methods that are supported are MD5 and SHA1. Answer: ABD

QUESTION 25 Which statement is true about enabling IS-IS routing and using the net command to configure the NSAP address? A. NSAP addresses have a fixed size of 20 bytes. B. The NSEL must always be 00 to identify the router. C. The area address follows the system ID field before the NSEL field. D. An AFI of 39 indicates that the AFI is a locally administered private address. Answer: B

QUESTION 26 You have just enabled IS-IS on the lab testing network. You notice that IS-IS is not using the optimal path selection based on the interface bandwidth. Currently, the IS-IS routing process seems to be selecting the best path based on the hop count. What configuration change can you make to cause IS-IS to select the optimal path based on the interface bandwidth? A. Enable a wide-style IS-IS metric. B. Enable a narrow-style IS-IS metric. C. Change the default auto-cost reference bandwidth to a higher value. D. Change the default IS-IS metric on each of the router interfaces to better correspond to the interface bandwidth. E. Change the interface bandwidth by using the bandwidth interface configuration mode command. Answer: D

QUESTION 27 You have installed a new router and configured OSPF on it. However, this new router is not able to establish an OSPF neighbor relationship with the neighbor OSPF router. Which four conditions could cause this problem? (Choose four.) A. mismatched OSPF hello/dead interval between the new router and the neighbor router B. mismatched OSPF area ID between the new router and the neighbor router C. mismatched OSPF authentication data between the new router and the neighbor router D. mismatched OSPF router ID between the new router and the neighbor router E. mismatched interface MTU between the new router and the neighbor router F. mismatched interface bandwidth between the new router and the neighbor router Answer: ABCE

QUESTION 28 Refer to the Cisco IOS XR configuration exhibit. Which statement about the configuration is true?

```
!
router isis 1
net 49.0001.0100.0200.1001.00
address-family ipv4 unicast
metric-style wide
address-family ipv6 unicast
metric-style wide
!
```

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A. This is a Level-2-only router. B. This is a Level-1-only router. C. The maximum IS-IS path metric is 63. D. This router belongs to area ID 0001. E. This configuration is missing the net configuration for the IPv6 unicast address family. Answer: D

QUESTION 29 Which statement about the benefits of MPLS PHP is true? A. PHP is implemented to increase the performance on the egress edge LSR. PHP allows the egress edge LSR to perform only one lookup to route the IP packet based on destination IP address and routing table. B. PHP is implemented to increase the performance on the egress edge LSR. PHP enables the egress

edge LSR to perform only one lookup based on the ingress label. C. PHP is implemented to increase the performance on the egress edge LSR. PHP enables the egress edge LSR to perform two lookups, first lookup based on the ingress label and a second route lookup based on the destination IP address. D. PHP is implemented to increase the performance on the LSR (P routers). PHP enables the LSR (P routers) to perform only one lookup based on the ingress label. E. PHP is implemented to increase the performance on the LSR (P routers). PHP enables the LSR (P routers) to perform only one route lookup based on the destination IP address. F. PHP is implemented to increase the performance on the LSR (P routers). PHP enables the LSR (P routers) to perform two lookups, first lookup based on the ingress label and a second route lookup based on the destination IP address. G. PHP is implemented to increase the performance on the ingress edge LSR. PHP enables the ingress edge LSR to perform only one lookup based on the ingress label. H. PHP is implemented to increase the performance on the ingress edge LSR. PHP enables the ingress edge LSR to perform two lookups, first lookup based on the ingress label and a second route lookup based on the destination IP address. Answer: A QUESTION 30 Refer to the exhibit. Which three statements about MPLS LDP operations are true?

Media
RP/0/RSP0/CPU0:P1# sh
Prefix

192.168.102.0/24
10.2.10.1/32
10.10.10.100/32
<output omitted>

A. The incoming label for 10.2.10.1/32 is 16010 (which is allocated by the local router), and the outgoing label is 22 (as advertised by the next-hop router). B. The 16003 and 16010 labels are learned from the 192.168.112.40 LDP neighbor. C. The ImpNull outgoing label for the 192.168.102.0/24 network means that the outgoing label should be removed when sending packets to the 192.168.112.40 next-hop router, when the incoming label is 16003. D. The ImpNull outgoing label for the 192.168.102.0/24 network means that the local router has not received a label for that network from its neighbor. E. The Unlabeled outgoing label for 10.10.10.100/32 indicates that a label pop is required when sending packets to the 10.10.10.1 next-hop router. F. The outgoing label of 22 for 10.2.10.1/32 is learned from the 192.168.112.40 LDP neighbor. Answer: ACF

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