Vendor: HP

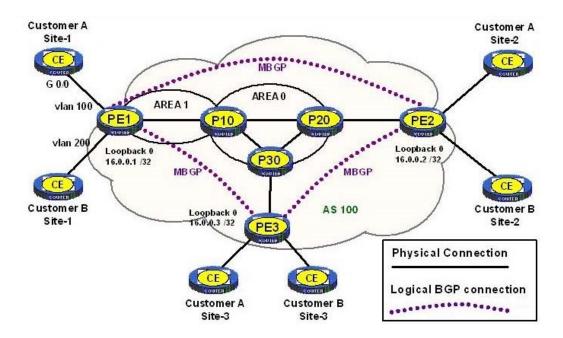**Exam Code:** HP0-Y36

Exam Name: Deploying HP Enterprise Networks

Version: Demo

Click the Exhibit button.

A provider of MPLS services configures MPLS Layer-3 VPN services for two customers. Each customer has three branch offices that will be interconnected. The address blocks chosen by the customers for each site are:

```
Customer   Site-1            Site-2            Site-3
A          10.1.0.0 /16      10.2.0.0 /16      10.3.0.0 /16
B          10.1.0.0 /16      10.2.0.0 /16      10.3.0.0 /16
```
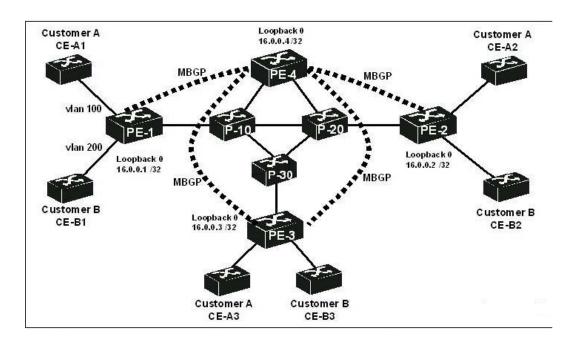
The provider uses OSPF as its IGP with the Loopback 0 addresses shown as the OSPF router-id and the MPLS LSR-ID. Customer A Site 1 successfully pings Customer A Site 2. This ICMP echo request is captured on the Ethernet segment between routers P-10 and P-20. What is found on this packet capture? (Select two.)

A. MPLS VPN label
B. VPN target
C. MPLS outer label corresponding to the LSR-ID of P-20
D. MPLS outer label corresponding to FEC 16.0.0.2
E. route distinguisher

Answer: A,D

QUESTION NO: 2

Click the Exhibit button.

A provider of MPLS services configures MPLS Layer-3 VPN services for two customers. Each customer has three branch offices that will be interconnected. The address blocks chosen by the customers for each site are:

```
Customer   VPN-instance   Site-1          Site-2          Site-3
A          Cust-A         10.1.0.0 /16    10.2.0.0 /16    10.3.0.0 /16
B          Cust-B         10.1.0.0 /16    10.2.0.0 /16    10.3.0.0 /16
```
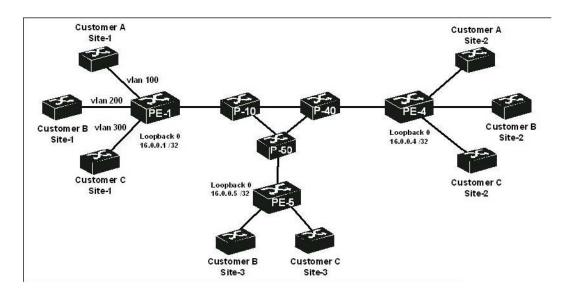
The provider has established only four Multi-Protocol BGP peers as shown in the exhibit. PE-4 has no customer connections. Neither MPLS L3VPN is functional. Which configuration steps are required if this topology is to be operational for both customers? (Select two.)

A. Create VPN instances Customer A and Customer B on PE-4.
B. Configure PE-4 as a route-reflector within the bgp l3vpn-family.
C. Configure PE-4 as a route-reflector within the ipv4-family vpnv4.
D. Configure PE-4 as a route-reflector within the ipv4-family vpn-instance Cust-A and vpn-instance Customer B.
E. Configure PE-4 as a bgp route-reflector.
F. Configure MBGP peers for P-10, P-20, and P-30.

Answer: A,C

QUESTION NO: 3

Click the Exhibit button.

A provider of MPLS services offers multiple types of MPLS-based VPNs to its customers. Provider Edge router PE-1 directly connects to the following three customers:

```
Customer       MPLS service                    Number of Sites

A              MPLS L2VPN Martini mode          2
B              VPLS - Kompella mode             3
C              MPLS L3VPN                       3
```

What is the minimum number of LDP peers established on Router PE-1?

A. 1
B. 2
C. 3
D. 4
E. 5

Answer: B

QUESTION NO: 4

Which technology in an MPLS L2VPN can provide ordered delivery of Ethernet frames?

A. TCP-based L2VPN

B. Control Word
C. Ethernet raw access circuit
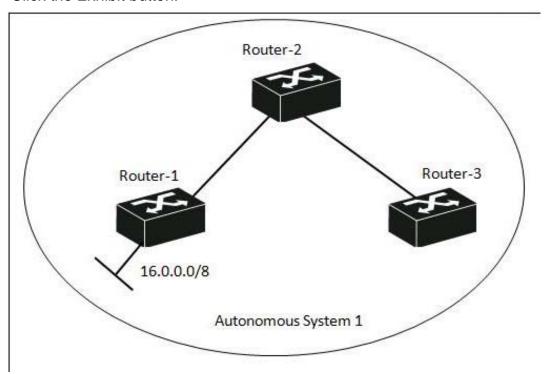**D.** VLAN pseudowire class
E. MPLS EXP bits

Answer: B

QUESTION NO: 5

Which BGP attributes must be present in a BGP routing update? (Select three.)

A. community
B. MED
C. origin type
D. local preference
E. AS path
F. next hop

Answer: C,E,F

QUESTION NO: 6

Click the Exhibit button.

Router-1 and Router-2 are BGP peers. Router-2 and Router-3 are BGP peers. However, Router-3 has not learned the 16.0.0.0/8 BGP route. How can you resolve this issue? (Select two.)

A. Enable IGP synchronization on all routers.
B. Prepend AS1 to the 16.0.0.0/8 route on Router-1.
C. Enable BGP peering between Router-1 and Router-3.
D. Adjust the local preference of 16.0.0.0/8 on Router-1.
E. Configure Router-2 as a route reflector and Router-1 and Router-3 as clients.
F. Establish a physical link between Router-1 and Router-3.

Answer: C,E

QUESTION NO: 7

What can be included in BGP or multi-protocol BGP Network Layer Reachability Information (NLRI)? (Select three.)

A. AS 65001
B. 10.0.0.0 /9
C. MED
D. Remote LDP Session
E. BGP ORF
F. VPN Target
G. VPLS Label Block
H. 6500:301:192.168.0.0 /16

Answer: B,G,H

QUESTION NO: 8

Which characteristics of a Circuit Cross Connect (CCC) L2VPN distinguish it from the Martini or Kompella versions? (Select two.)

A. It requires a stack of three MPLS labels.
B. It includes exactly two endpoints of the VPN.
C. It can operate with fewer than two MPLS labels.
D. It does not require any Label signaling.

Answer: C,D

QUESTION NO: 9

In the configuration of a Martini version L2VPN on two PE routers, which parameter must be identical?

A. S-VID
B. PW-ID
C. VLAN-ID
D. Service Instance number
E. VPN-Target
F. Remote LDP Peer IP address

Answer: B

QUESTION NO: 10

Which parameters must be configured on two PE routers to provision an Ethernet L2VPN in Martini mode? (Select four.)

A. PW-ID
B. LDP Remote Peer
C. VPN Instance
D. Service Instance
E. S-VID
F. L2VPN Address Family
G. Route Distinguisher
H. IP Binding

Answer: A,B,D,E

QUESTION NO: 11

What is the destination MAC address of Ethernet frames in the 802.1ad standard?

A. 0100.5e00.0001
B. 0100.5e00.0002
C. 0180.c200.000e
D. 0180.c200.0000
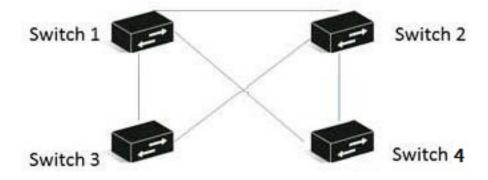
Answer: A

QUESTION NO: 12

You are implementing the Link Aggregation Control Protocol (LACP) between a pair of switches. Which criteria must match for successful negotiation? (Select three.)

A. switch hardware
B. duplex
C. media type
D. link speed
E. manufacturer
F. Link Aggregation mode

Answer: A,C,E

QUESTION NO: 13

Click the Exhibit button.

Given the following configuration and topology:

Switch 1
```
stp region-configuration
  region-name Acme
  revision-level 2
  instance 1 vlan 1 to 100
  instance 2 vlan 101 to 200
  active region-configuration
```

Switch 2
```
stp region-configuration
  region-name Acme
  revision-level 2
  instance 1 vlan 1 to 100
  instance 2 vlan 101 to 200
  active region-configuration
```

Switch 3
```
stp region-configuration
  region-name Acme
  revision-level 2
  instance 1 vlan 1 to 100
  instance 2 vlan 101 to 200
  active region-configuration
```

Switch 4
```
stp region-configuration
  region-name Acme
  revision-level
  instance 1 vlan 1 to 100
  instance 2 vlan 101 to 200
instance 3 vlan 201 to 300
  active region-configuration
```

What happens when Switch 4 completes its boot cycle and joins the MSTP domain?

A. MSTP updates the region configuration of switches with older revisions and the additional VLANs are not created.

B. MSTP updates the region configuration of the switches with lower revision numbers and creates additional VLANs.

C. MSTP detects an inconsistency between region configurations by analyzing the digest in the BPDU, then uses Commons Spanning tree between Switch 1 and Switch 4, and Switch 2 and Switch 4.

D. MSTP detects an inconsistency between region configurations by analyzing the digest in the BPDU, then uses Commons Spanning tree between Switch 1 and Switch 4, and Switch 2 and

Switch 4.

E. MSTP detects an inconsistency between region configurations by analyzing the digest in the BPDU, then uses Commons Spanning tree between Switch 1 and Switch 4, and Switch 2 and Switch 4.

F. MSTP does not modify the region configuration, and only traffic for instances 1 and 2 are carried over trunk links.

Answer: A

QUESTION NO: 14

When configuring MSTP in a multi-vendor environment, how do the path costs used by HP A-Series equipment compare to the path costs on other equipment?

A. Path cost values are higher than Cisco and HP E-Series.
B. Path cost values are lower than Cisco and HP E-Series.
C. Values are the same when used with Cisco.
D. Values are the same when used with HP E-Series.

Answer: B

QUESTION NO: 15

During a two-month migration project, you are tasked with changing many Cisco switches to HP A-Series switches. This migration will occur over several weeks, and you must try to maintain similar levels of service during the migration. In an effort to expand interoperability between HP-A series and existing equipment, the following commands have been issued on all switch ports of the HP A-Series switches:

```
lldp compliance cdp
port-group manual all
  group-member GigabitEthernet 1/0/1 to GigabitEthernet 1/0/01
  lldp compliance admin-status cdp txrx
```

What is the effect of these commands on ports in this group?

A. Cisco routers, switches, and phones will be able to see HP A-Series hardware.
B. Only Cisco switches and phones will be able to see the HP A-Series hardware.

C. Cisco phones can now be discovered and provisioned.
D. The HP A-Series devices can learn of Cisco devices, however Cisco will not see HP A-Series hardware.

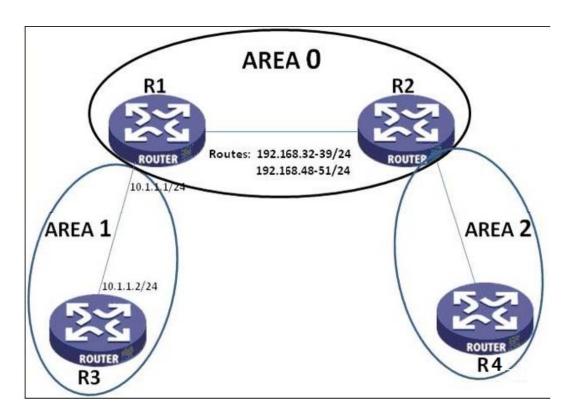**Answer: C**

QUESTION NO: 16

When Voice VLANs are implemented on an HP A-Series switch, how does the switch identify a VoIP device?

A. CDP
B. LLDP
C. OID
D. 802.3af

Answer: C

QUESTION NO: 17

Click the Exhibit button.

You are the network engineer responsible for the multi-area OSPF network shown in the exhibit. In order to keep the routing table and LSDB small on the R3 Router in Area 1, and to hide flapping links in other areas, you decide to summarize as much as possible the Area 0 Routes on R1 that are advertised into Area 1. You should include in the summary routes only the following explicit routes:
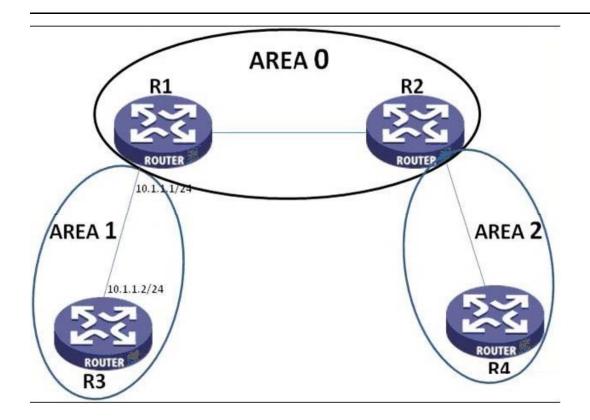
- 192.168.32.0/24 thru 192.168.39.0/24
- 192.168.48.0/24 thru 192.168.51.0/24

Which configuration will fufill these requirements?

A. [R1] ospf 1
area 1
abr-summary 192.168.32.0 21
abr-summary 192.168.48.0 22
B. [R1] ospf 1
area 0
abr-summary 192.168.32.0 21
abr-summary 192.168.48.0 22
C. [R1] ospf 1
area 0
abr-summary 192.168.0.0 16
D. [R1] ospf 1
area 0
area-range 192.168.32.0 21
area-range 192.168.48.0 22
E. [R1] ospf 1
area 0
area-range 192.168.32.0 19

Answer: B

QUESTION NO: 18

Click the Exhibit button.

AREA 0
R1   R2
ROUTER   ROUTER
10.1.1.1/24

AREA 1
10.1.1.2/24
ROUTER
R3

AREA 2
ROUTER
R4

You have been asked to recommend a design and configuration for an HP OSPF multi-area network. You have been asked to configure Area 1 so that the routing table and LSDB on R3 are kept as small as possible, while still supporting OSPF. R3 will not be required to redistribute any routes into OSPF. Based on these requirements, what is the best configuration in Area 1 on both R1 and R3?

A. [R1] ospf 1
area 1
network 10.1.1.1 0.0.0.0
stub no-summary
[R3] ospf 1
area 1
network 10.1.1.2 0.0.0.0
stub
B. [R1] ospf 1
area 1
network 10.1.1.1 0.0.0.0
stub
[R3] ospf 1
area 1
network 10.1.1.2 0.0.0.0
stub
C. [R1] ospf 1
area 1
network 10.1.1.1 0.0.0.0
stub no-summary
[R3] ospf 1

area 1

network 10.1.1.2 0.0.0.0

stub no-summary

D. [R1] ospf 1

area 1

network 10.1.1.1 0.0.0.0

nssa no-summary

[R3] ospf 1

area 1
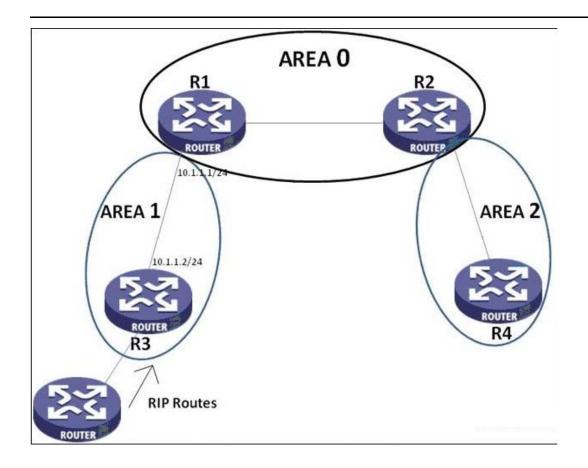
network 10.1.1.2 0.0.0.0

nssa

Answer: A

QUESTION NO: 19

Which OSPF LSA types represent external routes redistributed by ASBRs into OSPF, routes advertised by DRs, and LSAs generated by Graceful Restart routers? (Select three.)

A. Type 1

B. Type 2

C. Type 3

D. Type 4

E. Type 5

F. Type 9

Answer: B,E,F

QUESTION NO: 20

Click the Exhibit button.

You have been asked to recommend a design and configuration for an HP OSPF multi-area network. In order to conserve memory and CPU cycles, you have been asked to configure Area 1 so that the routing table and LSDB on R3 are kept as small as possible, while still supporting OSPF. There is a requirement that R3 be able to import routes into OSPF from a RIP router outside the OSPF network. The RIP router will not be sending a default route into the OSPF network. Based on these requirements, what is the best configuration in Area 1 on both R1 and R3?

A. [R1] ospf 1
area 1
network 10.1.1.1 0.0.0.0
stub no-summary
[R3] ospf 1
area 1
network 10.1.1.2 0.0.0.0
stub
B. [R1] ospf 1
area 1
network 10.1.1.1 0.0.0.0
nssa no-summary
[R3] ospf 1
area 1
network 10.1.1.2 0.0.0.0
nssa
C. [R1] ospf 1

area 1
network 10.1.1.1 0.0.0.0
nssa no-summary
[R3] ospf 1
area 1
network 10.1.1.2 0.0.0.0
nssa no-summary
D. [R1] ospf 1
area 1
network 10.1.1.1 0.0.0.0
nssa default-route-advertise no-summary
[R3] ospf 1
area 1
network 10.1.1.2 0.0.0.0
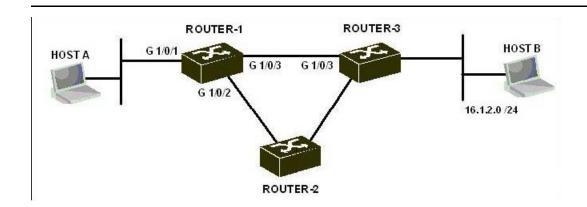nssa

Answer: D

QUESTION NO: 21

Which statements are true about Bidirectional Forwarding Detection (BFD) for IPv4? (Select
three.)

A. BFD only works with OSPF and BGP.
B. BFD can detect a neighbor loss in less than 50 msec.
C. BFD is a TCP-based HELLO mechanism.
D. BFD is a UDP-based HELLO mechanism.
E. BFD can be configured under the interface (ie. under interface g/x/x/x)
F. BFD can be configured under the routing protocol (ie. under ospf 1)

Answer: B,D,E

QUESTION NO: 22

Click the Exhibit button.

Router-2 is configured for RIP version 2 on all interfaces. Router-1 and Router-3 are configured for RIP version 2 on all interfaces except for interface G 1/0/3.

Router-2 is also configured for OSPF on all interfaces. Router-1 and Router-3 are also configured for OSPF on all interfaces except for interface G 1/0/3.

A static route to subnet 16.1.2.0 /24 is configured on Router-1 pointing directly to Router-3. All other routing settings are set to default values. Host A sends an IP packet to Host B. Which statement is true regarding this IP packet sourced from Host A and destined for Host B?

A. The IP packet travels from Router-1 to Router-3
B. The IP packet travels from Router-1 to Router-2 to Router-3
C. The IP packet is dropped by Router-1.
D. The IP packet loops between Router-1 and Router-2.

Answer: A

QUESTION NO: 23

Which statements are true about Graceful Restart? (Select three.)

A. Graceful Restart only works with OSPF.
B. Graceful Restart uses Type 9 opaque LSAs.
C. GR Helper function is on by default on HP A-Series switches.
D. HP A-Series switches only support the IETF version of Graceful Restart, not the non-standard version.
E. To configure Graceful Restart under OSPF, you would code
ospf 1
opaque-capability enable
graceful-restart ietf
F. To configure Graceful Restart under OSPF, you would code
ospf 1
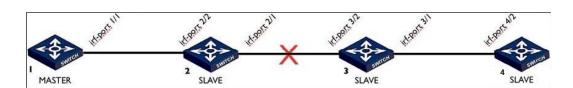nsf ietf

QUESTION NO: 24

In your IRF stack, you execute the display bfd session command and confirm the BFD session is active. What does this outcome indicate about the status of your IRF stack?

A. The IRF stack is electing a new Slave.
B. The IRF stack is performing as expected.
C. The IRF stack has split.
D. The IRF priorities are set at default values.

Answer: C

QUESTION NO: 25

Click the Exhibit button.

Four HP A5800 Switches are in an IRF stack with single 10G link in a daisy chain topology. An SFP+ failure causes the link between member switches 2 and 3 to no longer operate. MAD was not configured in the IRF stack.

How would "MAC persistent" affect the operation of the switches after the link loss?

The following is a sample of display irf output after the failure:

```
[Switch]display irf
 Switch     Role     Priority     CPU-Mac
 *+1        Master   1            0023-89d9-af08
  2         Slave    1            0023-89d9-b50a
  3         Slave    1            0023-89d9-cde3
  4         Slave    1            0023-89d9-1fa1
-----------------------------------------------

 * indicates the device is the master.
 + indicates the device through which the user logs in.

 The Bridge MAC of the IRF is: 0023-89d9-af07
 Auto upgrade                  : no
 Mac persistent                : 6 min
 Domain ID                     : 0

[Switch]display irf
  3         Slave    1            0023-89d9-cde3
 *+4        Slave    1            0023-89d9-1fa1
-----------------------------------------------

 * indicates the device is the master.
 + indicates the device through which the user logs in.

 The Bridge MAC of the IRF is: 0023-89d9-af07
 Auto upgrade                  : no
 Mac persistent                : 6 min
 Domain ID                     : 0
```

A. MAC address of the split IRF will not change in either stack 1&2 or stack 3&4.A.MAC address of the split IRF will not change in either stack 1&2 or stack 3&4.

B. MAC address for the split IRF stack 3&4 will change immediately.B.MAC address for the split IRF stack 3&4 will change immediately.

C. MAC address for the split IRF stack 3&4 will change after six minutes.C.MAC address for the split IRF stack 3&4 will change after six minutes.

D. MAC persistent would not be in effect during a split stack.D.MAC persistent would not be in effect during a split stack.

E. MAC address for the split IRF stack 1&2 will change after six minutes.E.MAC address for the split IRF stack 1&2 will change after six minutes.

Answer: C

QUESTION NO: 26

Click the Exhibit button.

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