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CCIE Service Provider Written Exam (V 4.1)

Cisco 400-201

Version Demo

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Topic Break Down

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QUESTION NO: 1

Which action enables an IPv6 multicast router on a subnet with locally attached receivers to quickly determine if there is a need to send traffic for a certain multicast group out to that subnet?

- A. Adjust the MLD report interval on the router.
- B. Activate IGPMv3 snooping and fast-leave.
- C. Enable the MLDv2 explicit-tracking feature.
- D. Decrease the ICMPv4 multicast query timer.

ANSWER: B

QUESTION NO: 2

Refer to the exhibit. Which technology is being implemented?

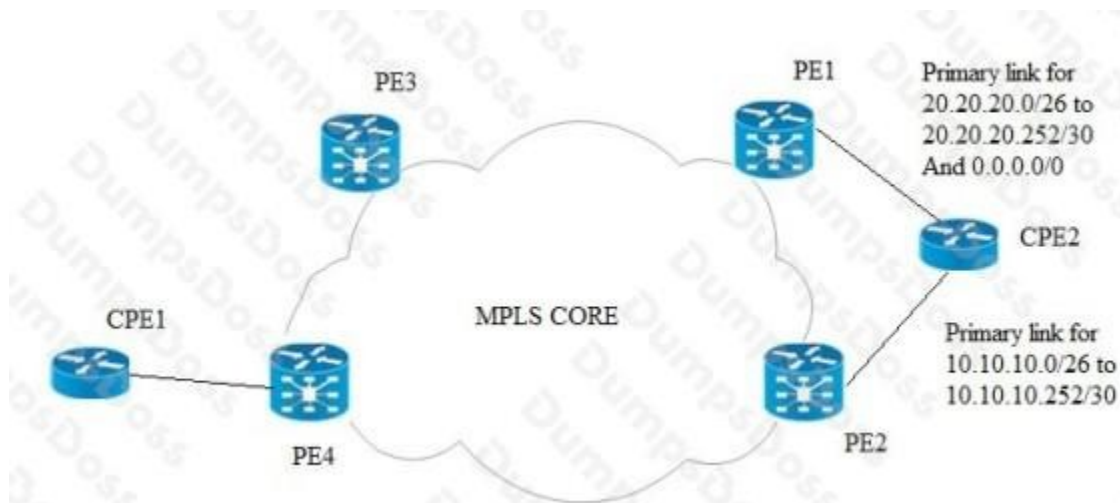
```
interface Tunnel 1000
  ip unnumbered Loopback 0
  tunnel destination 10.0.0.1
  tunnel mode mpls traffic-eng
  tunnel mpls traffic-eng autoroute announce
  tunnel mpls traffic-eng exp-bundle master
  tunnel mpls traffic-eng exp-bundle member Tunnel 1001
  tunnel mpls traffic-eng exp-bundle number Tunnel 1011
!
interface Tunnel 1001
  ip unnumbered Loopback 0
  tunnel destination 10.0.0.1
  tunnel mode mpls traffic-eng
  tunnel mpls traffic-eng autoroute announce
  tunnel mpls traffic-eng path-option 1 explicit name FASTPATH
  tunnel mpls traffic-eng exp 1
!
interface Tunnel 1011
  ip unnumbered Loopback 0
  tunnel destination 10.0.0.1
  tunnel mode mpls traffic-eng
  tunnel mpls traffic-eng autoroute announce
  tunnel mpls traffic-eng path-option 10 dynamic
  tunnel mpls traffic-eng exp 3
  mpls traffic-eng administrative-weight 111
```

- A. DS-TE
- B. PBTS
- C. IP FRR
- D. CBTS

ANSWER: D

QUESTION NO: 3

Refer to the exhibit. Which route policy must be implemented to meet this requirement?



A.

```
! Router PE1
prefix-set TEST
20.20.20.0/24 ge 26 le 30,
0.0.0.0/0
end-set
!
route-policy test
if destination in TEST then
set local-preference 200
else
pass
endif
end-policy
```

```
! Router PE2
prefix-set TEST
10.10.10.0/24 ge 26 le 30,
end-set
!
route-policy test
if destination in TEST then
set local-preference 200
else
pass
endif
end-policy
```

B.

```
! Router PE1
prefix-set TEST
20.20.20.0/24 ge 26,
0.0.0.0/0,
end-set
!
route-policy test
if destination in TEST then
set local-preference 200
else
pass
endif
end-policy
```

```
! Router PE2
prefix-set TEST
10.10.10.0/24 ge 26,
end-set
!
route-policy test
if destination in TEST then
set local-preference 200
endif
end-policy
```

C.

```
! Router PE1
prefix-set TEST
20.20.20.0/24 le 30,
0.0.0.0/0,
end-set
!
route-policy test
if destination in TEST then
set local-preference 200
endif
end-policy
```

```
! Router PE2
prefix-set TEST
10.10.10.0/24 le 30,
end-set
!
route-policy test
if destination in TEST then
set local-preference 200
endif
end-policy
```

D.

```
! Router PE1
prefix-set TEST
20.20.20.0/26 ge 30,
0.0.0.0/0,
end-set
!
route-policy test
```

```
! Router PE2
prefix-set TEST
10.10.10.0/26 le 30,
end-set
!
route-policy test
if destination in TEST then
```

<pre> end-set ! route-policy test if destination in TEST then set local-preference 200 else deny endif end-policy </pre>	<pre> ! route-policy test if destination in TEST then set local-preference 200 else deny endif end-policy </pre>
--	--

- A. Option A
- B. Option B
- C. Option C
- D. Option D

ANSWER: A

QUESTION NO: 4

A VPLS network consists of provider edge routers that have fully meshed pseudowires. The network runs unicast and multicast traffic. The network recently experienced bandwidth- and CPU-related performance issues. While monitoring the VPLS statistics and interface statistics, you note that the network is experiencing an unusual amount of broadcasts and undesired multicast on the network. Which two techniques should the operations team consider in addressing these problems?

- A. Implement IGMP snooping in the VPLS network.
- B. Enable split horizon between all the pseudowires in the VPLS network
- C. Set a limit on MAC learning in the VPLS network
- D. Implement Storm Control in the VPLS bridge domain
- E. Implement MAC withdrawal on each EFP in the VPLS bridge domain
- F. Change the network to run VPWS to manage the broadcast traffic efficiently

ANSWER: A D

QUESTION NO: 5

```
vrf definition ZZZ
  rd 1:1
  vpn id 1000:1000
  !
  address-family ipv4
    mdt auto-discovery mldp
    mdt default mpls mldp 10.100.1.3
    router-target export 1:1
    router-target import 1:1
  exit-address-family
```

Refer to the exhibit. Which option describes the role of the 10.100.1.3 router?

- A. ingress router for the point-to-multipoint mLDP tree
- B. root router for a multipoint-to-multipoint mLDP tree
- C. initiates the upstream mLDP trees
- D. holds the mLDP database

ANSWER: B

QUESTION NO: 6

Which two topologies are supported by the Cisco satellite network virtualization (nV) system? (Choose two.)

- A. Spine and Leaf Topology
- B. Hub and Spoke network topology
- C. Dual Home network topology
- D. Collapsed Core topology

ANSWER: B C

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k_r6-0/nV/configuration/guide/b_nv_cg60xasr9k/b_nv_cg60xasr9k_chapter_010.html

QUESTION NO: 7

Which option is a valid in-band method to map multicast flows to LSPs?

- A. PIM
- B. BGP auto-discovery
- C. BGP C-multicast

D. mLDP extension to map multicast to LSP

E. static

ANSWER: D

QUESTION NO: 8

Which standard provides insurance that the new hardware rollout plan meets certain environment design guidelines before deployment?

A. ITIL ®

B. eTOM

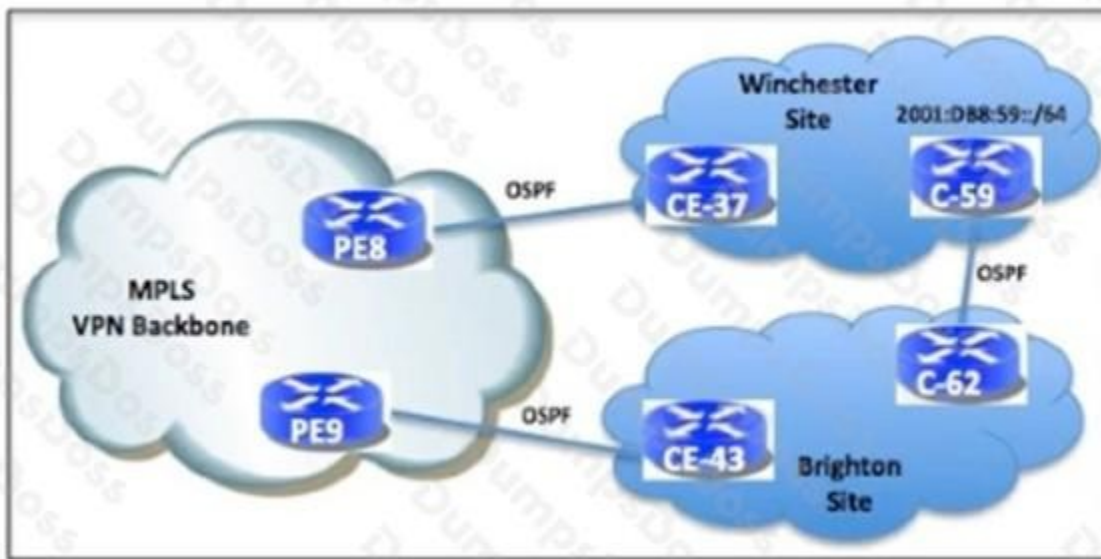
C. NEBS

D. COBIT

E. NAS

ANSWER: C

QUESTION NO: 9



Refer to the exhibit. OSPF is the PE-CE protocol. A backdoor link exists between the C-59 and C-62. Which two OSPF features are used to enforce that the backdoor link is used only for backup purpose? (Choose two.)

A. Increase the OSPF link cost between C-59 and C-62.

B. Configure a sham link between PE8 and PE9.

C. Apply site-of-origin feature on PE8 and PE9.

D. Configure a virtual link between C-59 and C-62.

E. PE8 must not import what PE9 is exporting and vice-versa.

ANSWER: A B

QUESTION NO: 10

```
spls traffic-eng
interface GigabitEthernet0/3/0/0
!
interface GigabitEthernet0/3/0/1
!
ds-te mode ietf
ds-te te-classes
    te-class 0 class-type 1 priority 0
    te-class 1 class-type 0 priority 1
    te-class 2 class-type 1 priority 2
    te-class 3 class-type 0 priprity 3
    te-class 4 unused
    te-class 5 unused
    te-class 6 unused
    te-class 7 unused
```

Refer to exhibit. Which conclusion is true?

- A. CT0 TE LSP can preempt CT1 TE. CT1 TE LSP cannot preempt CT0, except CT1 TE LSPs that corresponds to TE Class 0.
- B. CT0 TE LSP can preempt a CT1 TE LSP, but not vise versa. A CT1 TE LSP with a better priority can still preempt a CT1 TE LSP with worse priority.
- C. CT1 TE LSP can preempt some CT0 TE LSPs and vice versa however other TE LSPs cannot preempt CT1 TE LSPs that corresponds to TE Class 0.
- D. CT1 TE LSP can preempt a CT0 TE LSP, but not vice versa. A CT0 TE LSP with a better priority can still preempt a CT0 TE LSP with worse priority.

ANSWER: C

Explanation:

References:

QUESTION NO: 11

Which two statements about IP LFA/FRR are true? (Choose two.)

- A. The repair path installation is done in the IS-IS or OSPF database.
- B. LFA/FRR can protect paths through an interface only if the interface is a point-to-point interface.
- C. The repair path computation is done by any IGP such as EIGRP or OSPF.
- D. Cisco MPLS TE can be used as a protected interface, regardless of whether the Cisco MPLS TE tunnel is used as a primary path.
- E. The resulting repair paths are sent to the RIB.

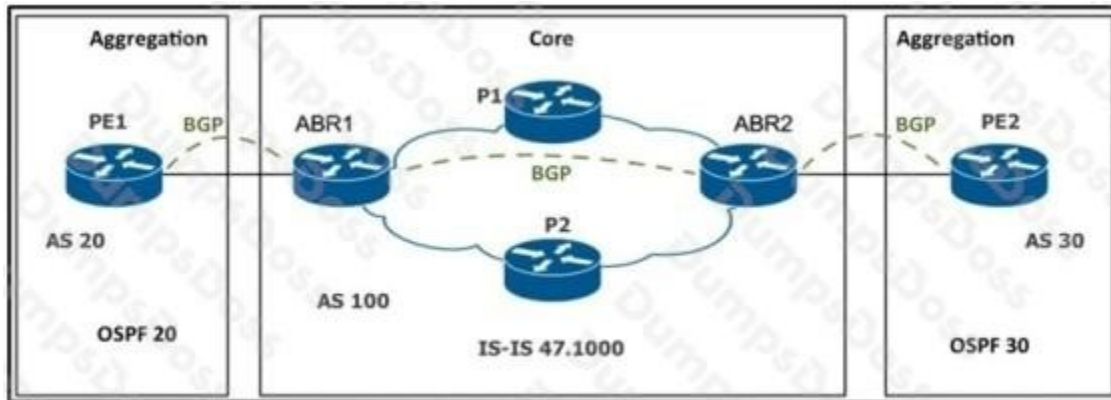
ANSWER: B E

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_pi/configuration/xr-3s/iri-xr-3s-book/iri-ip-lfa-frr.html

QUESTION NO: 12

Refer to the exhibit. Which two actions must be applied to provide a seamless MPLS solution that integrates aggregation and core areas of the network by providing scalable end-to-end LSPs? (Choose two.)



- A. Replace Layer 3 VPN services with Layer 2 VPN services.
- B. Deploy BGP between PEs and ABRs with RFC 3107.
- C. Extend the IS-IS domain used in the core to the aggregation areas of the network.
- D. Set the next hop for the prefixes advertised by the ABR
- E. Enable VRF lite between core and aggregation links.

ANSWER: B D

Explanation:

Reference: <https://www.cisco.com/c/en/us/support/docs/multiprotocol-label-switching-mpls/mpls/116127-configure-technology-00.html>

QUESTION NO: 13

An R1 router requires an equal load balancing to reach the prefix 192.168.0.0/16 over two exit points:

- through R2 router
- through R3 router

Assuming BGP is the protocol used on the two exit points, which two options must be configured on the R1 router to achieve this goal? (Choose two.)

- A. The BGP maximum path feature must be configured on R1.
- B. The BGP PIC core must be enabled on R1.
- C. Weight, local-pref, MED, as-path length, origin, and the BGP next-hop IGP cost must be the same for the R2 and R3 IBGP updates to R1.
- D. The BGP Link Bandwidth feature must be applied on R1.

E. BGP extended community exchange must be enabled between IBGP neighbors.

ANSWER: A C