



# 350-029<sup>Q&As</sup>

CCIE Service Provider written

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### QUESTION 1

In PIM-SM operations, to which device does the first router that connects with the multicast source send the register message?

- A. RP
- B. multicast source
- C. IGMP router
- D. multicast receiver
- E. PIM designated router

Correct Answer: A

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### QUESTION 2

In Ethernet Aggregation application which option is needed when the U-PE connects to an N-PE and broadband remote access servers?

- A. Ethernet Multipoint Service (EMS)
- B. VPLS
- C. E1
- D. Wire Service

Correct Answer: A

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### QUESTION 3

Which three of these statements about the IP service level agreement (SLA) sender are true? (Choose three)

- A. SLA sender target can be an IP host
- B. SLA sender sends a probe packet and a response probe packet
- C. SLA sender sends a probe packet
- D. SLA sender target must be a router
- E. SLA sender target can be an IP SLA responder

Correct Answer: ACE

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### QUESTION 4



Which three protocols use TLVs to carry attributes? (Choose three.)

- A. Cisco Discovery Protocol
- B. Label Discovery Protocol
- C. Border Gateway Protocol
- D. OSPF
- E. RIP version 2

Correct Answer: ABC

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#### QUESTION 5

The show ip ospf database external command displays information about which OSPF LSA type?

- A. LSA type 1
- B. LSA type 2
- C. LSA type 7
- D. LSA type 3
- E. LSA type 9
- F. LSA type 5

Correct Answer: F

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#### QUESTION 6

Which two statements about 10 Gigabit Ethernet (10GE) are true? (Choose two.)

- A. 10 Gigabit Ethernet does not support VLAN definition
- B. 10 Gigabit Ethernet supports full duplex links, but does not support half duplex links.
- C. 10 Gigabit Ethernet supports unshielded or shielded twisted-pair cable connections
- D. 10 Gigabit Ethernet supports Carrier Sense Multiple Access with Collision Detection (CSMA/CD).
- E. 10 Gigabit Ethernet supports optical fiber connections in single mode only. Multi mode is not supported.

Correct Answer: BC

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#### QUESTION 7

BGP best route selection process is based on what?

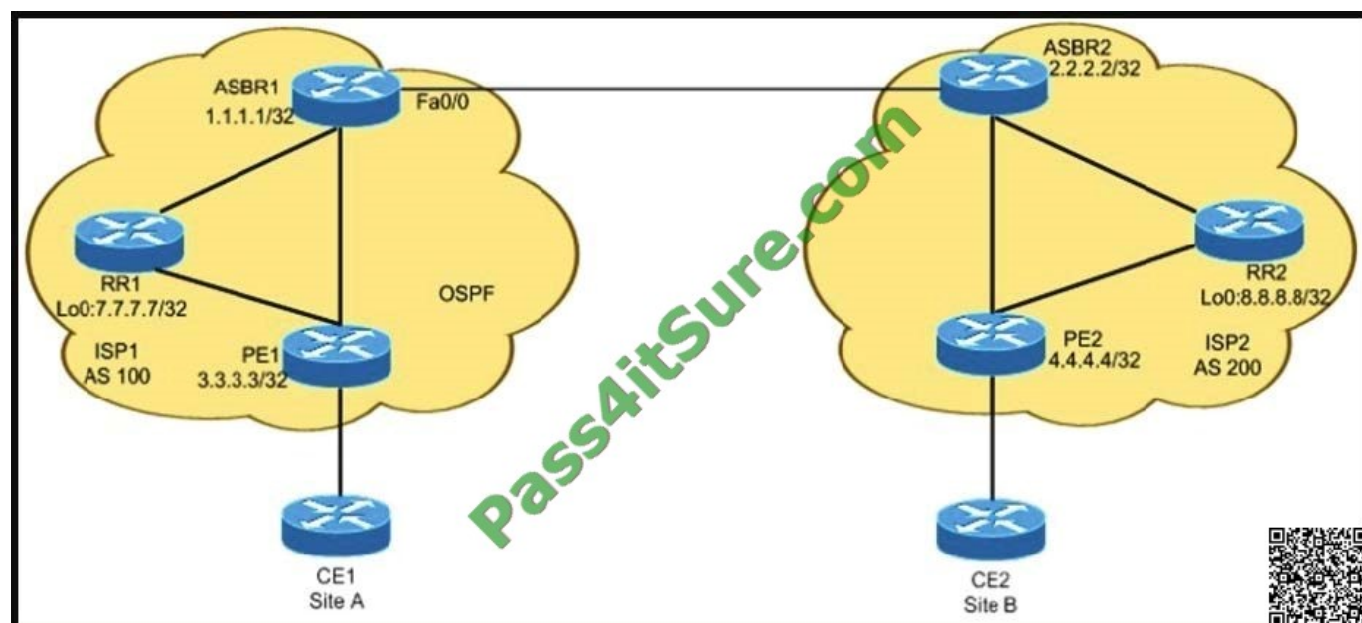


- A. path attributes
- B. lowest cost
- C. highest bandwidth
- D. lowest delay
- E. lowest hop-count

Correct Answer: A

### QUESTION 8

Refer to the exhibit.



MPLS VPN service has been provisioned for customer ABC using an inter-AS MPLS option C. A network admin on ISP1 decided not to redistribute ISP2 received loopback addresses into IGP.

Which five commands can be configured to guarantee an end-to-end connectivity between ABC sites? (Choose five.)

- A. configure on ASBR1 BGP VPNv4 address-family neighbor 7.7.7.7 send-label
- B. configure on ASBR1 BGP VPNv4 address-family neighbor 7.7.7.7 next-hop-self
- C. configure on RR1 BGP VPNv4 address-family neighbor 1.1.1.1 send-label
- D. configure on RR1 BGP IPv4 address-family neighbor 1.1.1.1 send-label
- E. configure on RR1 BGP IPv4 address-family neighbor 3.3.3.3 send-label
- F. configure on RR1 BGP VPNv4 address-family neighbor 3.3.3.3 send-label
- G. configure on ASBR1 BGP IPv4 address-family neighbor 7.7.7.7 send-label



H. configure on ASBR1 BGP IPv4 address-family neighbor 7.7.7.7 next-hop-self

I. configure on PE1 BGP VPNv4 address-family neighbor 7.7.7.7 next-hop-self

J. configure on PE1 BGP IPv4 address-family neighbor 7.7.7.7 next-hop-self

Correct Answer: DEGHJ

## QUESTION 9

Select and Place:

Drag the Address Family Identifier number on the left to the correct protocol on the right.

1	DNS
2	L2VPN
16	IPv6
18	IPv4
25	AS number

Correct Answer:

Drag the Address Family Identifier number on the left to the correct protocol on the right.

	16
	25
	2
	1
	18

## QUESTION 10

What is the importance of using Virtual Output Queues on ingress Line Cards in a high-end router?

- A. Increases forwarding performance
- B. Simplifies configuration
- C. Prevents head-of-line blocking
- D. Uses less memory



Correct Answer: C

The 12000 uses virtual output queues to eliminate the Head of Line Blocking within the switch fabric.

### QUESTION 11

Which two features must be configured to perform AToM NSF? (Choose two)

- A. FRR
- B. SSO
- C. distribute CEF
- D. switch virtual path
- E. graceful restart

Correct Answer: BE

Before you configure AToM NSF, you need to configure MPLS LDP Graceful Restart. MPLS LDP GR is enabled globally. When you enable LDP GR, it has no effect on existing LDP sessions. LDP GR is enabled for new sessions that are

established after the feature has been globally enabled.

#### How AToM NSF Works

AToM NSF improves the availability of the network of the service provider that uses AToM to provide Layer 2 VPN services. HA provides the ability to detect failures and handle them with minimal disruption to the service being provided.

AToM NSF is achieved by SSO and NSF mechanisms. A standby RP provides control-plane redundancy. The control plane state and data plane provisioning information for the attachment circuits (ACs) and AToM pseudowires (PWs) are checkpointed to the standby RP to provide NSF for AToM L2VPNs.

### QUESTION 12

Select and Place:

Drag the Layer 2 QoS marking types on the left to the correct Layer 2 QoS names on the right.

1-bit drop eligibility flag	experimental bit
3-bit 802.1p field in 802.1Q header	discard eligibility
1-bit drop eligibility flag	class of service
3-bit on MPLS header	cell loss priority

Correct Answer:



Drag the Layer 2 QoS marking types on the left to the correct Layer 2 QoS names on the right.

	3-bit on MPLS header
	1-bit drop eligibility flag
	3-bit 802.1p field in 802.1Q header
	1-bit drop eligibility flag

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