



351-001^{Q&As}

CCIE Routing and Switching Written

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QUESTION 1

Which two statements about class maps are true? (Choose two.)

- A. As many as eight DSCP values can be included in a match dscp statement.
- B. The default parameter on a class map with more than one match command is match- any.
- C. The match class command can nest a class map within another class map.
- D. A policy map can be used to designate a protocol within a class map.

Correct Answer: AC

Answer A.

Router(config-cmap)# match [ip] dscp dscp-value [dscp-value dscp-value dscp-value dscp-value dscp-value dscp-value dscp-value] (Optional) Identifies a specific IP differentiated service code point (DSCP) value as a match criterion. Up to eight DSCP values can be included in one match statement.

Answer C.

Router config-cmap)# match class-map class-name

(Optional) Specifies the name of a traffic class to be used as a matching criterion (for nesting traffic class [nested class maps] within one another).

Reference:

http://www.cisco.com/c/en/us/td/docs/ios/12_2/qos/configuration/guide/fqos_c/qcfmcli2.html

QUESTION 2

Refer to the exhibit.

```
router ospf 100
router-id 4.4.4.4
area 110 nssa
summary-address 192.168.0.0 255.255.0.0 nssa-only
redistribute static metric-type 1 subnets tag 704
network 110.110.0.0 0.0.255.255 area 110
```

This is the configuration of the ASBR of area 110. Which option explains why the remote ABR should not translate the type 7 LSA for the prefix 192.168.0.0/16 into a type 5 LSA?

- A. The remote ABR translates all type 7 LSA into type 5 LSA, regardless of any option configured in the ASBR.
- B. The ASBR sets the forwarding address to 0.0.0.0 which instructs the ABR not to translate the LSA into a type 5 LSA.



- C. The ASBR originates a type 7 LSA with age equal to MAXAGE 3600.
- D. The ABR clears the P bit in the header of the type 7 LSA for 192.168.0.0/16.

Correct Answer: D

When external routing information is imported into an NSSA, LSA Type 7 is generated by the ASBR and it is flooded within that area only. To further distribute the external information, type 7 LSA is translated into type 5 LSA at the NSSA border. The P-bit in LSA Type 7 field indicates whether the type 7 LSA should be translated. This P-bit is automatically set by the NSSA ABR (also the Forwarding Address (FA) is copied from Type 7 LSA). The P-bit is not set only when the NSSA ASBR and NSSA ABR are the same router for the area. If bit P = 0, then the NSSA ABR must not translate this LSA into Type 5. The nssa-only keyword instructs the device to instigate Type-7 LSA with cleared P-bit, thereby, preventing LSA translation to Type 5 on NSSA ABR device. Note. If a router is attached to another AS and is also an NSSA ABR, it may originate a both a type-5 and a type-7 LSA for the same network. The type-5 LSA will be flooded to the backbone and the type-7 will be flooded into the NSSA. If this is the case, the P-bit must be reset (P=0) in the type-7 LSA so the type-7 LSA isn't again translated into a type- 5 LSA by another NSSA ABR.

Reference: http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_ospf/configuration/15- e/iro-15-e-book/iro-ospfv3-nssa-cfg.html

QUESTION 3

DRAG DROP

Drag and drop the NetFlow Export feature on the left to the NetFlow version that first supported it on the right.

Select and Place:

Drag and drop the NetFlow Export feature on the left to the NetFlow version that first supported it on the right.

exports data from the aggregation cache only	Version 5
exports data from the main and aggregation caches	
exports data from the main cache only	
supports BGP next-hop	Version 3
supports BGP AS information	
supports IPv6	Version 3

Correct Answer:



Drag and drop the NetFlow Export feature on the left to the NetFlow version that first supported it on the right.

	Version 5 exports data from the main cache only supports BGP AS information
	Version 4 exports data from the aggregation cache only
	Version 3 supports IPv6 exports data from the main and aggregation caches supports BGP next-hop

QUESTION 4

Which mechanism can be used on Layer 2 switches so that only multicast packets with downstream receivers are sent on the multicast router-connected ports?

- A. IGMP snooping
- B. Router Guard
- C. PIM snooping
- D. multicast filtering

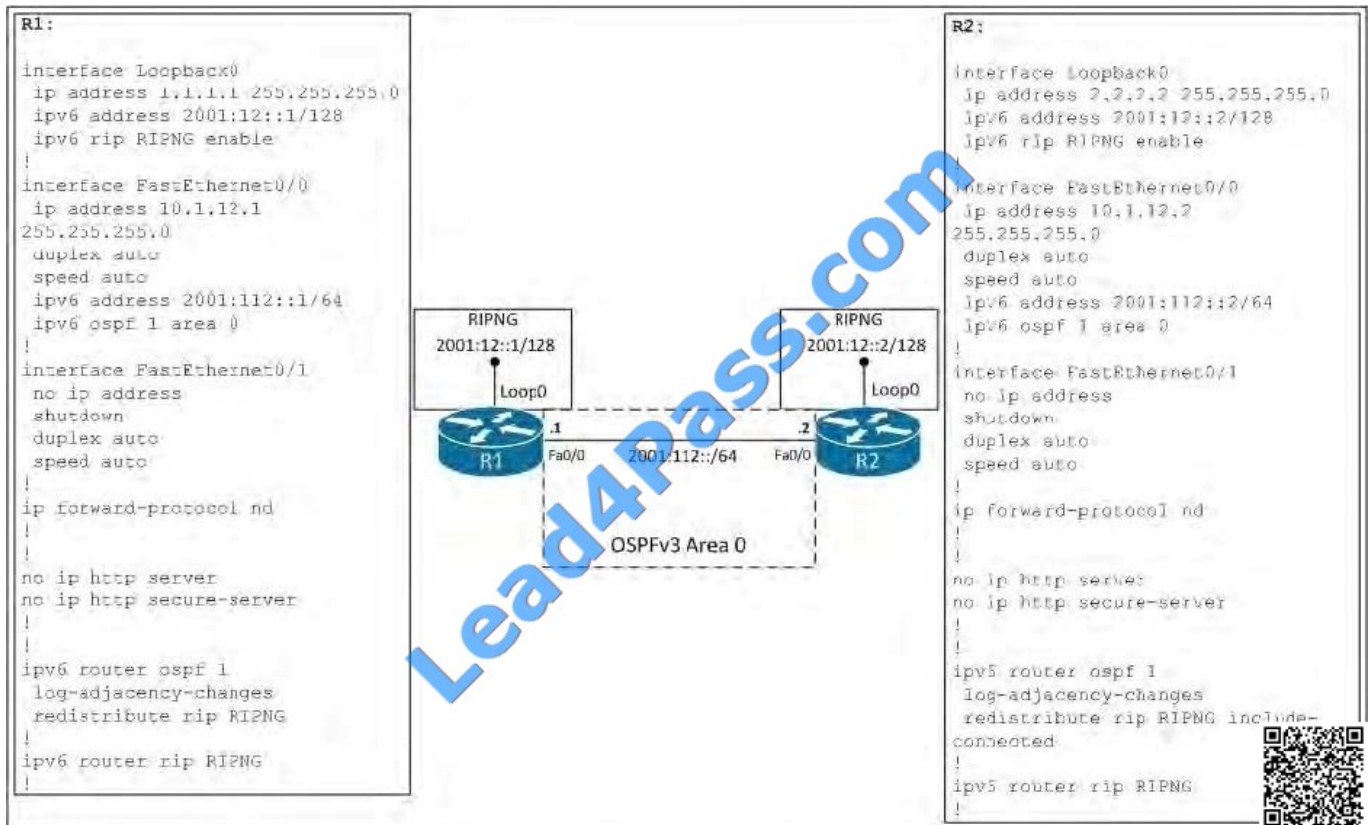
Correct Answer: C

Ideally, the Layer 2 device should forward the multicast transmission only out ports to which receivers are connected and also out any ports that are connected to downstream multicast routers. This configuration requires a Layer 2 device to be able to determine the ports on which multicast routers and receivers for each separate (S,G) or (*,G) multicast group are located. To facilitate intelligent forwarding of multicast traffic on the LAN, Cisco Catalyst switches support two mechanisms: IGMP snooping -- The switch listens in or "snoops" IGMP communications between receivers and multicast routers. This snooping enables the switch to determine which ports are connected to receivers for each multicast group and which ports are connected to multicast routers. Cisco Group Management Protocol (CGMP) -- The switch communicates with multicasts routers, with multicast routers relaying group membership information to switches.

Reference: https://www.informit.com/library/content.aspx?b=CCNP_Studies_SwitchingandseqNum=59

QUESTION 5

Refer to the exhibit.



Which OSPFv3 routes will be visible in the routing table of R2?

- A. 2001:12::1/128
- B. 2001:12::1/128, 2001:112::1/128
- C. 2001:12::2/128
- D. No OSPFv3 routes will be visible.

Correct Answer: D

The command "ipv6 unicast-routing" needs to be configured on both routers before any IPv6 routes will be seen.

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