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**Cisco**

**Exam Questions 642-883**

SPROUTE Deploying Cisco Service Provider Network  
Routing (SPROUTE)

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### QUESTION 1

Refer to the exhibit.

The route-map shown in the exhibit is applied to updates received from a BGP neighbor. Which two statements are correct regarding the Cisco IOS route map configuration? (Choose two.)

- A. The local preference will be set to 200 AND the metric will be set to 1000 IF the route matches the PL1 OR PL2 prefix list AND the route also matches the AS path 1 access list.
- B. The three match conditions are logical AND: match prefix list PL1 AND PL2 AND match the AS path 1 access list. In AS
- C. The match prefix-list condition is a logical OR: match prefix list PL1 OR PL2.
- D. All routes that are not matched by the sequence 10 route map statement will be dropped.
- E. All match conditions are logical OR: match prefix list PL1 OR PL2 OR match the AS path 1 access list.

**Answer:** AB

### QUESTION 2

Refer to the Cisco IOS-XR route policy exhibit.

```
route-policy setcomm
if community matches-any (11:11, 44:44) then
set community (55:55) additive
elseif community matches-any (22:22) then
set community (77:77) additive
endif
```

Which statement correctly describes this route policy?

- A. The pass action is required after each of the set community statements to make this route policy functional.
- B. If a route has both the 11:11 and 22:22 communities (or 44:44 and 22:22), the router adds the 55:55 community only.
- C. If a route contains the 11:11 or 44:44 community, the router adds the 55:55 community and continue
- D. Additionally, if the same route also contains the 22:22 community, the router also adds another 77:77 community to the same route.
- E. If a route only has the 22:22 community, then no community will be added by the router.
- F. If a route only has the 11:11 or 44:44 community, then no community will be added by the router.

**Answer:** B

### QUESTION 3

Which AS path access list is used by a multihomed customer to only announce their own address space to their service providers to prevent the multihomed customer from becoming a transit AS?

- A. ip as-path access-list permit.\*
- B. ip as-path access-list permit^\$
- C. ip as-path access-list permit \_\$
- D. ip as-path access-list permit \_^
- E. ip as-path access-list permit local-as ip as-path access-list deny \*
- F. ip as-path access-list deny.\* ip as-path access-list permit \*

**Answer:** B

**Explanation:**



CHAR	USAGE
^	Start of string
\$	End of string
[]	Range of characters
-	Used to specify range ( i.e. [0-9] )
( )	Logical grouping
.	Any single character
*	Zero or more instances
+	One or more instance
?	Zero or one instance
-	Comma, open or close brace, open or close parentheses, start or end of string, or space

Some commonly used regular expressions include:

Expression	Meaning
.*	Anything
^\$	Locally originated routes
^100_	Learned from AS 100
_100\$	Originated in AS 100
_100_	Any instance of AS 100
^[0-9]+\$	Directly connected ASes

C:\Documents and Settings\user-nwz\Desktop1.JPG

#### QUESTION 4

An EIGRP domain is redistributed into an OSPF NSSA area. On which router would this redistribution occur?

- A. stub border router
- B. summary router
- C. autonomous system boundary router
- D. backbone router

Answer: C

#### QUESTION 5

Which option describes a function of an OSPF virtual link?

- A. Create redundant path between an area and the backbone.
- B. Provide a backdoor link for traffic to flow through between areas.
- C. Connect the two parts of a partitioned backbone through a nonbackbone area.
- D. Create a virtual connection between two routers from different areas.

Answer: C

#### QUESTION 6

In an AS with 10 routers running IBGP, how many IBGP sessions will be required to establish fully meshed IBGP peerings?

- A. 10
- B. 20
- C. 45
- D. 50
- E. 99
- F. 100

Answer: C

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