642-902 Q&As

Implementing cisco ip routing

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QUESTION 1

Which command displays the number of times that the OSPF Shortest Path First (SPF) algorithm has been executed?

A. show ip protocol

B. show ip ospf

C. show ip ospf database

D. show ip ospf interface

Correct Answer: B

The following table describes the output of the "show ip ospf" command and their meanings: Table52 show ip ospf Field Descriptions

Field	Description
Routing process "ospf 201" with ID 10.0.0.1	Process ID and OSPF router ID.
Supports...	Number of types of service supported (Type 0 only).
SPF schedule delay	Delay time of SPF calculations.
Minimum LSA interval	Minimum interval between link-state advertisements.
LSA group pacing timer	Configured LSA group pacing timer (in seconds).
Interface flood pacing timer	Configured LSA flood pacing timer (in milliseconds).
Retransmission pacing timer	Configured LSA retransmission pacing timer (in milliseconds).
Number of...	Number and type of link-state advertisements that have been received.
Number of external LSA	Number of external link-state advertisements.
Number of opaque AS LSA	Number of opaque link-state advertisements.
Number of DCbitless external and opaque AS LSA	Number of demand circuit external and opaque link-state advertisements.
Number of DoNotAge external and opaque AS LSA	Number of do not age external and opaque link-state advertisements.
Number of areas in this router is	Number of areas configured for the router.
External flood list length	External flood list length.

Reference:http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123cgcr/iprrp_r /ip2_s3g.htm#wp1036469

QUESTION 2

An engineer is trying to summarize the following networks using the "ip summary-address eigrp" command:

10.8.88.0/25 10.8.89.48/29 10.8.64.96/27

Which network and subnet mask below would be the smallest EIGRP summary address to include all three subnets?

A. 10.8.64.0 255.255.224.0

B. 10.8.64.0 255.255.128.0

C. 10.8.64.0 255.255.192.0

D. 10.8.0.0 255.255.192.0

Correct Answer: A

10.8.64.0 255.255.224.0 will include networks 10.8.64.0 - 10.8.96.255, so this would be the smallest summary route that would include the 3 routes listed in the question.

QUESTION 3

Which command displays the IBGP and EBGP neighbors that are configured?

A. show ip bgp

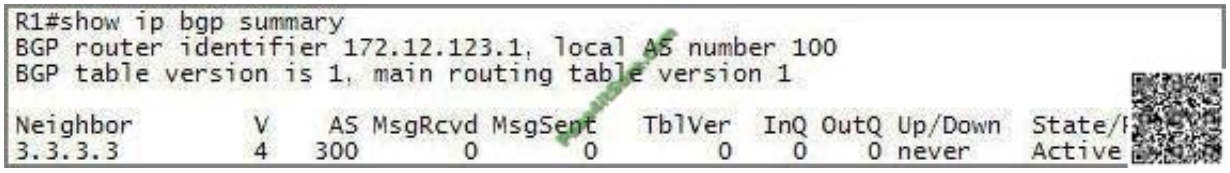
B. show ip bgp paths

C. show ip bgp peers

D. show ip bgp summary

Correct Answer: D

The picture below shows the output of the show ip bgp summary



Notice that the "show ip bgp" command to display BGP topology database. Below is the output of the "show ip bgp" command:

```
RouterA# show ip bgp
BGP table version is 14, local router ID is 172.31.11.1
Status codes: s suppressed, d damped, h history, * valid, > best, i -
internal, r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete
   Network          Next Hop            Metric LocPrf Weight Path
*> 10.1.0.0/24      0.0.0.0                  0         32768 i
* i                 10.1.0.2                 0    100      0 i
*> 10.1.1.0/24      0.0.0.0                  0         32768 i
*>i10.1.2.0/24      10.1.0.2                 0    100      0 i
*> 10.97.97.0/24    172.31.1.3                             0 64998 64997 i
*                   172.31.11.4                            0 64999 64997 i
* i                 172.31.11.4              0    100      0 64999 64997 i
*> 10.254.0.0/24    172.31.1.3               0             0 64998 i
*                   172.31.11.4                            0 64999 64998 i
* i                 172.31.1.3               0    100      0 64998 i
r> 172.31.1.0/24    172.31.1.3               0             0 64998 i
r                   172.31.11.4                            0 64999 64998 i
r i                 172.31.1.3               0    100      0 64998 i
*> 172.31.2.0/24    172.31.1.3               0             0 64998 i
<output omitted>
```

QUESTION 4

Refer to the exhibit.

```
Core1#show ip eigrp topology all-links
IP EIGRP Topology table for AS(65001) / ID (172.17.10.1)

Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - reply Status, s - sia Status

P 172.17.3.128/25, 2 successors, FD is 30720, serno 9
       via 172.17.10.2 (30720/28160), FastEthernet0/1
       via 172.17.3.2 (30720/28160), FastEthernet0/3
P 10.140.0.0/24, 1 successors, FD is 156160, serno 16
       via 172.17.3.2 (156160/1232560), FastEthernet0/3
       via 172.17.10.2 (157720/155160), FastEthernet0/1
P 172.17.10.0/24, 1 successors, FD is 28160, serno 1
       via Connected, FastEthernet0/1
P 172.17.0.0/30, 1 successors, FD is 20514560, serno 15
       via 172.17.1.1 (20514560/205122000), FastEthernet0/2
       via 172.17.10.2 (20516120/20513560), FastEthernet0/1
P 172.17.1.0/24, 1 successors, FD is 28160, serno 2
       via Connected, FastEthernet0/2
P 172.17.2.0/24, 1 successors, FD is 30720, serno 8
       via 172.17.10.2 (30720/28160), FastEthernet0/1
       via 172.17.3.2 (33280/30720), FastEthernet0/3
P 172.17.3.0/25, 1 successors, FD is 28160, serno 3
       via Connected, FastEthernet0/3
Core1#
```

BigBids Incorporated is a worldwide auction provider. The network uses EIGRP as its routing protocol throughout the corporation. The network administrator does not understand the convergence of EIGRP. Using the output of the show ip

eigrp topology all-links command, answer the administrator\\'s question.

Which three networks is the router at 172.17.10.2 directly connected to? (Choose three)

A. 172.17.0.0/30

B. 172.17.1.0/24

C. 172.17.2.0/24

D. 172.17.3.0/25

E. 172.17.3.128/25

F. 172.17.10.0/24

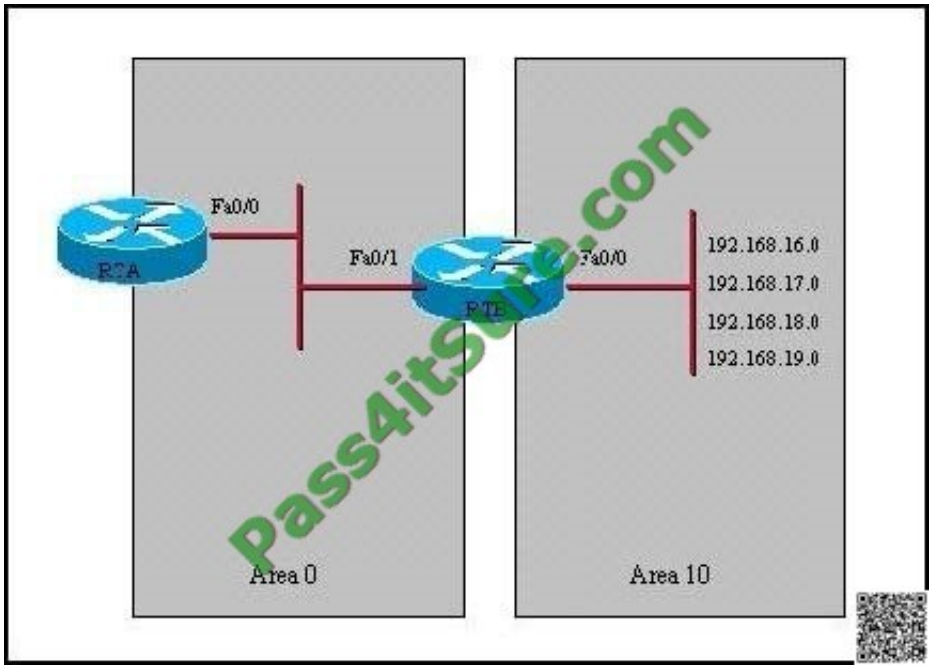
Correct Answer: CEF

First, we should notice about the entry in the orange box, it shows that the network 172.17.10.0/24 is directly connected with this router and has a FD of 28160. So we can guess the networks that directly connected with router at 172.17.10.2 will be shown with an AD of 28160. From that, we find out 3 networks which are directly connected to the router at

172.17.10.2 (they are green underlined). The network 172.17.10.0/24 is surely directly connected to the router at 172.17.10.2 (in fact it is the network that links the router at 172.17.10.2 with Core1 router).

QUESTION 5

Given the above OSPF network, which command will RTB use to summarize routes for the 192.168.16.0/22 supernet before injecting them into Area 0?



A. area 10 range 192.168.16.0 255.255.252.0

B. summary-address 192.168.16.0 255.255.252.0

C. ip summary-address ospf 101 192.168.16.0 255.255.252.0

D. area 0 range 192.168.16.0 255.255.252.0

E. ip summary-address area 0 192.168.16.0 255.255.252.0

Correct Answer: A

The area range command is used only with Area Border Routers (ABRs) which is router RT2 in this example. It is used to consolidate or summarize routes for an area. The result is that a single summary route is advertised to other areas by the ABR. Routing information is condensed at area boundaries. External to the area, a single route is advertised for each address range. Only Choice A specifies the correct syntax and route summarization network mask.