



# 300-101<sup>Q&As</sup>

Implementing Cisco IP Routing

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### QUESTION 1

Refer to the exhibit.

```
<output omitted>
!
router ospf 10
  redistribute rip route-map rip-in
!
<output omitted>
!
route-map rip-in permit 10
  match ip address 10 20
  set metric 100
  set metric-type type-1
route-map rip-in deny 20

  match ip address 30

route-map rip-in permit 30
  set metric 200
  set metric-type type-2
!
access-list 10 permit 10.0.10.0 0.0.0.255
access-list 20 permit 192.168.1.0 0.0.0.255
access-list 30 permit 10.0.0.0 0.255.255.255
```

Which two statements are correct regarding the routes to be redistributed into OSPF? (Choose two)

- A. The network 192.168.1.0 will be allowed and assigned a metric of 100.
- B. The network 192.168.1.0 will be allowed and assigned a metric of 200.
- C. All networks except 10.0.0.0/8 will be allowed and assigned a metric of 200.
- D. The network 172.16.0.0/16 will be allowed and assigned a metric of 200.
- E. The network 10.0.10.0/24 will be allowed and assigned a metric of 200.



Correct Answer: AD

**QUESTION 2**

Which two methods of deployment can you use when implementing NAT64? (Choose two.)

- A. stateless
- B. stateful
- C. manual
- D. automatic
- E. static
- F. functional
- G. dynamic

Correct Answer: AB

While stateful and stateless NAT64 perform the task of translating IPv4 packets into IPv6 packets and vice versa, there are important differences. The following table provides a high-level overview of the most relevant differences. Table 2. Differences Between Stateless NAT64 and Stateful NAT64 Reference:

[http://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/enterprise-ipv6-solution/white\\_paper\\_c11-676277.html](http://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/enterprise-ipv6-solution/white_paper_c11-676277.html)

Stateless NAT64	Stateful NAT64
1:1 translation	1:N translation
No conservation of IPv4 address	Conserves IPv4 address
Assures end-to-end address transparency and scalability	Uses address overloading, hence lacks in end-to-end address transparency
No state or bindings created on the translation	State or bindings are created on every unique translation
Requires IPv4-translatable IPv6 addresses assignment (mandatory requirement)	No requirement on the nature of IPv6 address assignment
Requires either manual or DHCPv6 based address assignment for IPv6 hosts	Free to choose any mode of IPv6 address assignment viz. Manual, DHCPv6, SLAAC

**QUESTION 3**

Which two statements about IP access-lists are true? (Choose two)

- A. They support wildcard masks to limit the address bits to which entries are applied.
- B. Extended access lists must include port numbers
- C. IP access list without at least one deny statement permit all traffic by default
- D. They end with an implicit permit



E. Entries are applied to traffic in the order in which they appear

Correct Answer: AE

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#### QUESTION 4

There is an exhibit which shows eigrp configured across the 2 Spokes and one Hub router. Question is why the spoke routers are not able to see each others loopback ?

- A. Network mask used on loopback interface of spoke is invalid
- B. Split horizon enabled on Hub is preventing the advertisement
- C. Physical layer 1 issue between the Spoke and Hub
- D. Split horizon on one of the spoke interface is preventing the advertisement

Correct Answer: B

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#### QUESTION 5

Which two methods use IPsec to provide secure connectivity from the branch office to the headquarters office? (Choose two.)

- A. DMVPN
- B. MPLS VPN
- C. Virtual Tunnel Interface (VTI)
- D. SSL VPN
- E. PPPoE

Correct Answer: AC

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