



# 100-101<sup>Q&As</sup>

CCNA Interconnecting Cisco Networking Devices 1 (ICND1)

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**QUESTION 1**

Refer to the exhibit.

RouterA# show ip route

Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2

i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2

ia - IS-IS inter area, \* - candidate default, U - per-user static route

o - ODR, P - periodic downloaded static route

Gateway of last resort is 0.0.0.0 to network 0.0.0.0

172.16.0.0/24 is subnetted, 1 subnets

C 172.16.1.0 is directly connected, Ethernet0/1

10.0.0.0/30 is subnetted, 1 subnets

C 10.255.255.200 is directly connected, Serial0/0

S\* 0.0.0.0/0 is directly connected, Serial0/0

RouterA#



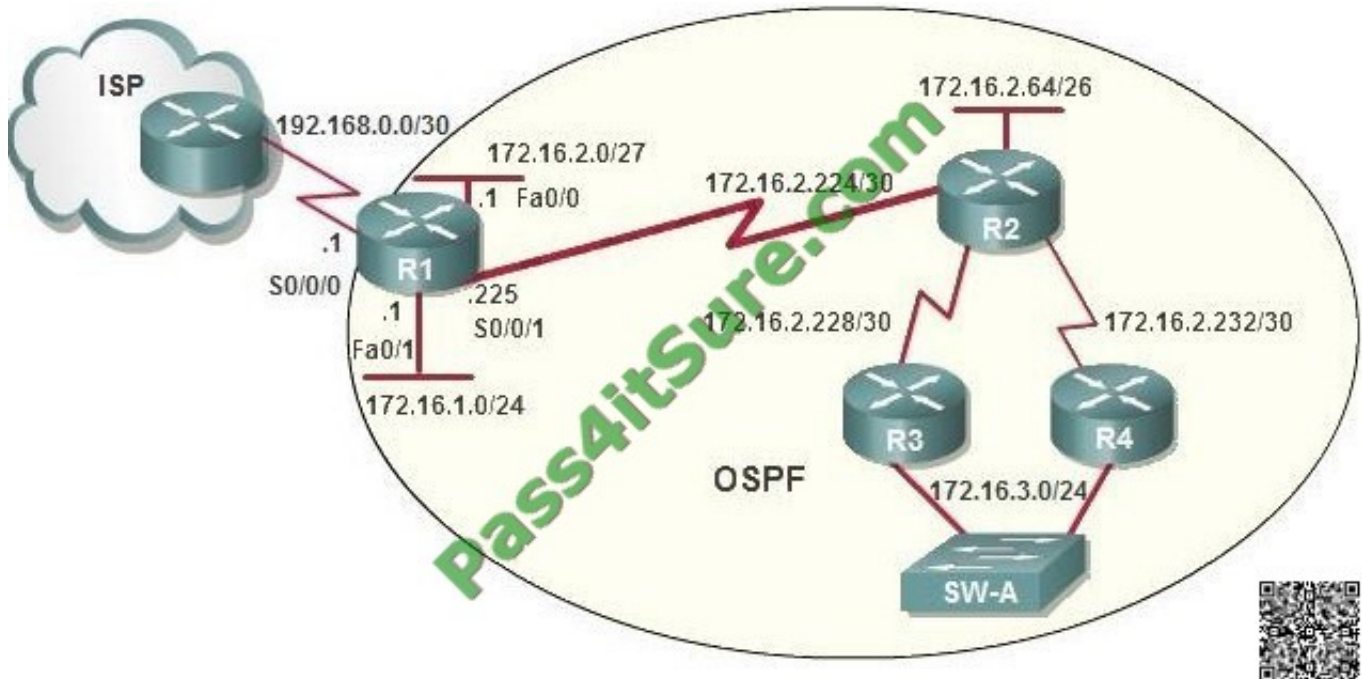
The output is from a router in a large enterprise. From the output, determine the role of the router.

- A. A Core router.
- B. The HQ Internet gateway router.
- C. The WAN router at the central site.
- D. Remote stub router at a remote site.

Correct Answer: D

**QUESTION 2**

OSPF is configured using default classful addressing. With all routers and interfaces operational, how many networks will be in the routing table of R1 that are indicated to be learned by OSPF?



- A. 2
- B. 3
- C. 4
- D. 5
- E. 6
- F. 7

Correct Answer: C

### QUESTION 3

An administrator has connected devices to a switch and, for security reasons, wants the dynamically learned MAC addresses from the address table added to the running configuration. What must be done to accomplish this?

- A. Enable port security and use the keyword sticky.
- B. Set the switchport mode to trunk and save the running configuration.
- C. Use the switchport protected command to have the MAC addresses added to the configuration.
- D. Use the no switchport port-security command to allow MAC addresses to be added to the configuration.

Correct Answer: A

[http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/port\\_sec.pdf](http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/port_sec.pdf)



One can configure MAC addresses to be sticky. These can be dynamically learned or manually configured, stored in the address table, and added to the running configuration. If these addresses are saved in the configuration file, the interface does not need to dynamically relearn them when the switch restarts, hence enabling security as desired.

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#### QUESTION 4

Which transport layer protocol provides best-effort delivery service with no acknowledgment receipt required?

- A. HTTP
- B. IP
- C. TCP
- D. Telnet
- E. UDP

Correct Answer: E

UDP provides a connectionless datagram service that offers best-effort delivery, which means that UDP does not guarantee delivery or verify sequencing for any datagrams. A source host that needs reliable communication must use either TCP or a program that provides its own sequencing and acknowledgment services.

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#### QUESTION 5

How many bits are contained in each field of an IPv6 address?

- A. 24
- B. 4
- C. 8
- D. 16

Correct Answer: D

[http://www.cisco.com/en/US/technologies/tk648/tk872/technologies\\_white\\_paper0900aecd8026\\_003d.pdf](http://www.cisco.com/en/US/technologies/tk648/tk872/technologies_white_paper0900aecd8026_003d.pdf) One of the key advantages IPv6 brings is the exponentially larger address space. The following will outline the basic address architecture of IPv6. 128-bit-long addresses Represented in hexadecimal format: Uses CIDR principles: prefix/prefix length x:x:x:x:x:x:x, where x is a 16-bit hex field The last 64 bits are used for the interface ID

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