



# 100-105<sup>Q&As</sup>

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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### QUESTION 1

Which two steps must you perform to enable router-on-a-stick on a switch? (Choose two.)

- A. Configure an IP route to the VLAN destination network.
- B. Connect the Router to a trunk port.
- C. Configure full duplex.
- D. Configure the subinterface number exactly the same as the matching VLAN.
- E. Assign the access port to a VLAN.

Correct Answer: BC

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### QUESTION 2

Which type of route is the most trusted?

- A. BGP
- B. OSPF
- C. static
- D. connected

Correct Answer: D

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### QUESTION 3

R1 is unable to establish an OSPF neighbor relationship with R3. What are possible reasons for this problem? (Choose two)



**Instructions**

This item contains several questions that you must answer. You can view these questions by clicking on the corresponding button to the left. Changing questions can be accomplished by clicking the numbers to the left of each question. In order to complete the questions, you will need to refer to the topology.

To gain access to the topology, click on the topology button at the bottom of the screen. When you have finished viewing the topology, you can return to your questions by clicking on the Questions button to the left.

Each of the windows can be minimized by clicking on the [-]. You can also reposition a window by dragging it by the title bar.

**Scenario**

Refer to the on the Ques

**Topology**

The diagram shows a network topology with the following components and connections:

- ISP:** Connected to R1 via S0/0/0. IP address: 192.168.0.0/30.
- R1:** Connected to R2 via Fa0/0. IP address: 172.16.2.0/27. Connected to SW-A via Fa0/1. IP address: 172.16.1.0/24.
- R2:** Connected to R3 via S0/0/1. IP address: 172.16.2.224/30. Connected to R4 via S0/0/0. IP address: 172.16.2.228/30. Connected to SW-A via S0/0/24. IP address: 172.16.2.64/26.
- R3:** Connected to R4 via S0/0/24. IP address: 172.16.3.0/24.
- R4:** Connected to R3 via S0/0/24. IP address: 172.16.2.232/30.
- SW-A:** Connected to R1, R2, and R4.
- OSPF:** Configured on R3 and R4.
- Area 1:** R1 and R2.
- Area 2:** R3 and R4.
- Static Route:** Configured from R1 to R3.

- A. All of the routers need to be configured for backbone Area 1.
- B. R1 and R2 are the DR and BDR, so OSPF will not establish neighbor adjacency with R3.
- C. A static route has been configured from R1 to R3 and prevents the neighbor adjacency from being established.
- D. The hello and dead interval timers are not set to the same values on R1 and R3.
- E. EIGRP is also configured on these routers with a lower administrative distance.
- F. R1 and R3 are configured in different areas.

Correct Answer: DF

To become OSPF neighbors, routers must meet these requirements: Hello interval, Dead interval and AREA number -> D and F are correct.

#### QUESTION 4

Click on the correct location or locations in the exhibit.



**Instructions**

This item contains several questions that you must answer. You can view these questions by clicking on the corresponding button to the left. Changing questions can be accomplished by clicking the numbers to the left of each question. In order to complete the questions, you will need to refer to the Exhibit.

To gain access to the Exhibit, click on the Exhibit button at the bottom of the screen. When you have finished viewing the Exhibit, you can return to your questions by clicking on the Questions button to the left.

Each of the windows can be minimized by clicking on the [-]. You can also reposition a window by dragging it by the title bar.

**Scenario**

Refer to the Exhibit. As the first step in verifying a local host configuration, a network technician issues the **ipconfig /all** command on a computer. Use the results of the command to answer the five questions shown on the Questions tab.

**Exhibit**

```
C:\WINNT\system32\cmd.exe

Connection-specific DNS Suffix . : cisco.com
Description . . . . . : Intel(R) PRO/1000 MT Mobile

Physical Address . . . . . : 00-0D-60-FD-F0-34
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IP Address. . . . . : 172.16.236.227
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 172.16.236.1
DHCP Server . . . . . : 172.16.3.2
DNS Servers . . . . . : 10.4.8.1
                          10.5.2.22
Primary WINS Server . . . . . : 10.69.2.87
Secondary WINS Server . . . . . : 10.69.235.228
Lease Obtained. . . . . : Monday, June 11, 2007 9:26:45 AM
Lease Expires . . . . . : Thursday, June 14, 2007 9:26:45 AM

Ethernet adapter Local Area Connection:

Media State . . . . . : Cable Disconnected
Description . . . . . : Cisco Systems Wireless LAN Adapter
Physical Address. . . . . : 00-0E-9B-48-86-2A
```

From this computer, the network technician is able to successfully ping to the IP address of the primary DNS server



configured on the computer. What can the network technician determine about the network?

- A. The DNS server is able to resolve domain names to IP addresses.
- B. The router with address 172.16.3.2 has the correct route to the 10.0.0.0 network.
- C. The names of all the routes in the path can be resolved by the configured DNS servers.
- D. The router with address 172.16.236.1 has a route it can use to reach network of the DNS server.

Correct Answer: D

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#### QUESTION 5

What is the network address for the host with IP address 192.168.23.61/28?

- A. 192.168.23.0
- B. 192.168.23.32
- C. 192.168.23.48
- D. 192.168.23.56
- E. 192.168.23.60

Correct Answer: C

convert bit-length prefix to quad-dotted decimal representation, then from it find the number of bits used for subnetting you can find previously calculated number of subnets by separating subnets each having value of last bit used for subnet masking Find that your IP address is in which subnet, that subnet's first address is network address and last address is broadcast address. Based on above steps the answer is option C.

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