



# 200-101<sup>Q&As</sup>

Interconnecting Cisco Networking Devices Part 2 (ICND2)

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**QUESTION 1**

Refer to the exhibit.

```
R10-1# show interfaces serial 0/1
Serial0/1 is up, line protocol is up
Hardware is cxBus Serial
MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec, reliability 255/255,
txload 1/255, rxload 1/255
Encapsulation HDLC, crc 16, loopback not set
Keepalive set (10 sec)
Last input 00:00:09, output 00:00:07, output hang 5w2d
Last clearing of "show interface" counters 00:39:17
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: weighted fair
Output queue: 0/1000/64/0 (size/max total/threshold/drops)
Conversations 0/1/256 (active/max active/max total)
Reserved Conversations 0/0 (allocated/max allocated)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
277 packets input, 16980 bytes, 0 no buffer
Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
277 packets output, 17106 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 output buffer failures, 0 output buffers swapped out
0 carrier transitions
RTS up, CTS up, DTR up, DCD up, DSR up
```

The show interfaces serial 0/1 command was issued on the R10-1 router. Based on the output displayed which statement is correct?

- A. The cable connected to the serial 0/1 interface of the R10-1 router is a DTE cable.
- B. The R10-1 router can ping the router interface connected to the serial 0/1 interface.
- C. The clock rate used for interface serial 0/1 of the R10-1 router is 1,544,000 bits per second.
- D. The CSU used with the serial 0/1 interface of the R10-1 router has lost connection to the service provider.
- E. The interface of the remote router connected to the serial 0/1 interface of the R10-1 router is using the default serial interface encapsulation.

Correct Answer: E

Cisco High-Level Data Link Controller (HDLC) is the Cisco proprietary protocol for Cisco HDLC is the default encapsulation type for the serial interfaces.

**QUESTION 2**



Which statement is true, as relates to classful or classless routing?

- A. Classful routing protocols send the subnet mask in routing updates.
- B. RIPv1 and OSPF are classless routing protocols.
- C. Automatic summarization at classful boundaries can cause problems on discontinuous subnets.
- D. EIGRP and OSPF are classful routing protocols and summarize routes by default.

Correct Answer: C

<http://www.ciscopress.com/articles/article.asp?p=174107&seqNum=3> RIPv1, RIPv2, IGRP, and EIGRP all auto-summarize classful boundaries by default (OSPF does not). To make discontinuous networks work, meaning you don't want classful boundaries to summarize, you need to turn off auto-summary.

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### QUESTION 3

What are two benefits of using a single OSPF area network design? (Choose two.)

- A. It is less CPU intensive for routers in the single area.
- B. It reduces the types of LSAs that are generated.
- C. It removes the need for virtual links.
- D. It increases LSA response times.
- E. It reduces the number of required OSPF neighbor adjacencies.

Correct Answer: BC

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### QUESTION 4

The output of the show frame-relay pvc command shows "PVC STATUS = INACTIVE". What does this mean?

- A. The PVC is configured correctly and is operating normally, but no data packets have been detected for more than five minutes.
- B. The PVC is configured correctly, is operating normally, and is no longer actively seeking the address of the remote router.
- C. The PVC is configured correctly, is operating normally, and is waiting for interesting traffic to trigger a call to the remote router.
- D. The PVC is configured correctly on the local switch, but there is a problem on the remote end of the PVC.
- E. The PVC is not configured on the local switch.

Correct Answer: D



The PVC STATUS displays the status of the PVC. The DCE device creates and sends the report to the DTE devices. There are 4 statuses:

ACTIVE: the PVC is operational and can transmit data INACTIVE: the connection from the local router to the switch is working, but the connection to the remote router is not available DELETED: the PVC is not present and no LMI information is being received from the Frame Relay switch STATIC: the Local Management Interface (LMI) mechanism on the interface is disabled (by using the "no keepalive" command). This status is rarely seen.

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## QUESTION 5

Refer to the exhibit.

```
router#show ip eigrp topology 10.0.0.5 255.255.255.255
IP-EIGRP topology entry for 10.0.0.5/32 State is Passive, Q
origin flag is 1, 1 Successor(s), FD is 41152000
```



Given the output from the show ip eigrp topology command, which router is the feasible successor?



- A. 10.1.0.3 (Serial0), from 10.1.0.3, Send flag is 0x0  
Composite metric is (46866176/46354176), Route is Internal  
Vector metric:  
Minimum bandwidth is 56 Kbit  
Total delay is 45000 microseconds  
Reliability is 255/255  
Load is 1/255  
Minimum MTU is 1500  
Hop count is 2
- B. 10.0.0.2 (Serial0.1), from 10.0.0.2, Send flag is 0x0  
Composite metric is (53973248/128256), Route is Internal  
Vector metric:  
Minimum bandwidth is 48 Kbit  
Total delay is 25000 microseconds  
Reliability is 255/255  
Load is 1/255  
Minimum MTU is 1500  
Hop count is 1
- C. 10.1.0.1 (Serial0), from 10.1.0.1, Send flag is 0x0  
Composite metric is (46152000/41640000), Route is Internal  
Vector metric:  
Minimum bandwidth is 64 Kbit  
Total delay is 45000 microseconds  
Reliability is 255/255  
Load is 1/255  
Minimum MTU is 1500  
Hop count is 2
- D. 10.1.1.1 (Serial0.1), from 10.1.1.1, Send flag is 0x0  
Composite metric is (46763776/46251776), Route is External  
Vector metric:  
Minimum bandwidth is 56 Kbit  
Total delay is 41000 microseconds  
Reliability is 255/255  
Load is 1/255  
Minimum MTU is 1500  
Hop count is 2

A. B. C. D.

Correct Answer: B



<http://networklessons.com/eigrp/eigrp-neighbor-and-topology-table-explained/>

To be the feasible successor, the Advertised Distance (AD) of that route must be less than the Feasible Distance (FD) of the successor. From the output of the "show ip eigrp topology 10.0.0.5 255.255.255.255" we learn that the FD of the successor is 41152000. Now we will mention about the answers, in the "Composite metric is (.../...)" statement the first parameter is the FD while the second parameter is the AD of that route. So we need to find out which route has the second parameter (AD) less than 41152000 -> only answer B satisfies this requirement with an AD of 128256.

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