



100-105^{Q&As}

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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QUESTION 1

You recently applied a common configuration to several PCs on different VLANs. The PCs are connected to the same switch with a router-on-a-stick, but users report that the PCs cannot ping one another. Which two are possible reasons for the problem? (Choose two.)

- A. The access ports on the PCs are misconfigured.
- B. The native VLAN on the router is misconfigured.
- C. The ip default-network command is misconfigured on the router.
- D. The trunking protocol is configured incorrectly on the router subinterfaces.
- E. The VLAN is configured incorrectly on the router subinterfaces.

Correct Answer: AE

QUESTION 2

Which six-byte field in a basic Ethernet frame must be an individual address?

- A. FCS
- B. SOF
- C. Sa
- D. Da

Correct Answer: C

QUESTION 3

An administrator previously changed the encapsulation on a synchronous serial line and saved the configuration. Now the administrator wants to restore the encapsulation back to the default. What action can the administrator do to return the interface back to its default encapsulation?

- A. Change the encapsulation to ARPA.
- B. Configure the interface for HDLC encapsulation.
- C. Reboot the router and allow it to reload the configuration.
- D. Issue the shutdown then no shutdown commands to reset the encapsulation on the interface.
- E. Remove the cable and plug it back in to allow the router to autonegotiate encapsulation settings.

Correct Answer: B



QUESTION 4

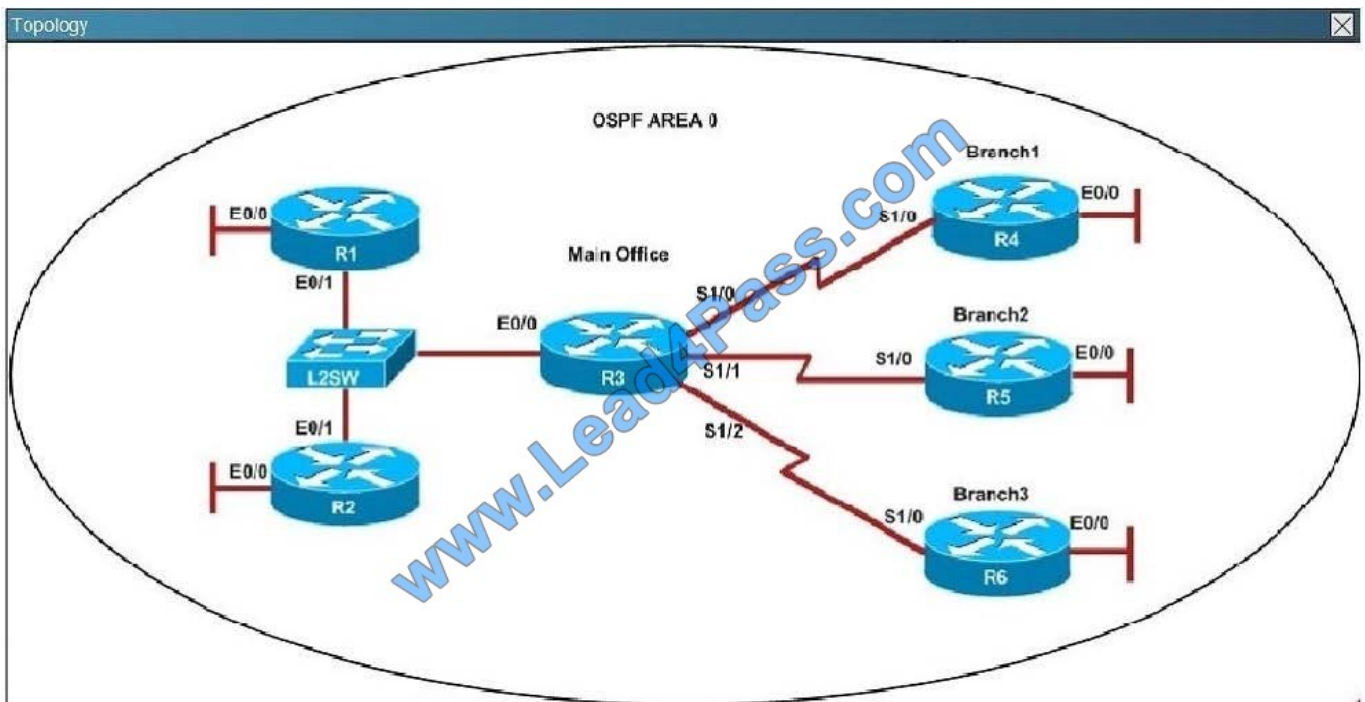
Which symptom most commonly indicates that two connecting interfaces are configured with a duplex mismatch?

- A. the spanning-tree process shutting down
- B. collisions on the interface
- C. an interface with a down/down status
- D. an interface with an up/down status

Correct Answer: B

QUESTION 5

Refer to the topology. Your company has decided to connect the main office with three other remote branch offices using point-to-point serial links. You are required to troubleshoot and resolve OSPF neighbor adjacency issues between the main office and the routers located in the remote branch offices.



An OSPF neighbor adjacency is not formed between R3 in the main office and R5 in the Branch2 office. What is causing the problem?

- A. There is an area ID mismatch.
- B. There is a PPP authentication issue; a password mismatch.
- C. There is an OSPF hello and dead interval mismatch.
- D. There is a missing network command in the OSPF process on R5.

Correct Answer: C



The "show ip ospf interface command on R3 and R5 shows that the hello and dead intervals do not match. They are 50 and 200 on R3 and 10 and 40 on R5.

```
R3
Suppess hello for 0 neighbor(s)
Serial1/1 is up, line protocol is up
Internet Address 10.10.240.5/30, Area 0, Attached via Interface Ethernet0/0
Process ID 3, Router ID 192.168.3.3, Network Type POINT_TO_POINT, Cost: 64
Topology-MTID Cost Disabled Shutdown Topology Name
0 64 no no Base
Enabled by interface config, including secondary ip addresses
Transmit Delay is 1 sec, State POINT_TO_POINT
Timer intervals configured, Hello 50, Dead 200, Wait 200, Retransmit 5
oob-resync timeout 200
Hello due in 00:00:39
Supports Link-local Signaling (LLS)
Cisco NSF helper support enabled
IETF NSF helper support enabled
Index 4/4, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 0, maximum is 0
Last flood scan time is 0 msec, maximum is 0 msec
Neighbor Count is 0, Adjacent neighbor count is 0
Suppess hello for 0 neighbor(s)
Serial1/0 is up, line protocol is up
Internet Address 10.10.240.1/30, Area 0, Attached via Interface Ethernet0/0
Process ID 3, Router ID 192.168.3.3, Network Type POINT_TO_POINT, Cost: 64
Topology-MTID Cost Disabled Shutdown Topology Name
0 64 no no Base
Enabled by interface config, including secondary ip addresses
Transmit Delay is 1 sec, State POINT_TO_POINT
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
oob-resync timeout 40
Hello due in 00:00:08
Supports Link-local Signaling (LLS)
Cisco NSF helper support enabled
IETF NSF helper support enabled
Index 3/3, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 0, maximum is 0
Last flood scan time is 0 msec, maximum is 0 msec
Neighbor Count is 0, Adjacent neighbor count is 0
Suppess hello for 0 neighbor(s)
Ethernet0/0 is up, line protocol is up
Internet Address 172.16.114.1/24, Area 0, Attached via Interface Ethernet0/0

--- More (37) ---

R5
```

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