

NAME: _____ DATE: _____

Northampton Community College
CISC267 – CCNA 2 - Chapter 2 Study Guide

1. What would cause the following to be displayed for the Serial interface:
 - a. Line up, protocol down?
 - b. Line down, protocol down?
2. What address would summarize the networks 192.168.8.0/24 thru 192.168.15.0/24?

```
Router1# show ip route
<output omitted>
Gateway of last resort is 0.0.0.0 to network 0.0.0.0
    172.16.0.0/20 is subnetted, 1 subnets
S       172.16.0.0 [1/0] via 192.168.0.2
    192.168.0.0/30 is subnetted, 2 subnets
C       192.168.0.0 is directly connected, Serial0/0
C       192.168.0.8 is directly connected, Serial0/1
S*    0.0.0.0/0 is directly connected, Serial0/2
```

3. Where will packets be sent if destined for host 192.168.5.47?
4. What is administrative distance?
5. What will the administrative distance be for a static route? (be careful, there are 2 answers here).
6. What command displays the routing table?

7. What command(s) would you use to test connectivity?

8. Create a static route for traffic destined for the 192.168.5.0/24 network to go out the Fastethernet 0/0 interface. (make sure you include the prompts)

9. Create a default route for all traffic to go out the Serial 0/1/1 interface (make sure you include the prompts).

10. What is CDP? What is displayed with the **show cdp neighbors** command?

11. What happens to a static route entry in a routing table when the outgoing interface is not available?

12. What command(s) allows you to see interface ip addresses?

13. What is a CDU/DSU?

14. Why configure static routes?

15. What command would remove the static route **ip route 172.16.5.0 255.255.255.0 S0/1**?