

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

**Northampton Community College**  
**CISC267 – CCNA 2 - Chapter 3 Study Guide**

1. Describe Administrative Distance.
  
  
  
  
  
  
  
  
  
  
2. What is a metric?
  
  
  
  
  
  
  
  
  
  
3. What are the default administrative distances for the following protocols:
  - a. RIP
  - b. EIGRP
  - c. OSPF
  
  
  
  
  
  
  
  
  
  
4. If a router learns of two paths to the same network from two different routing protocols, which one will the router choose (place in its table)?
  
  
  
  
  
  
  
  
  
  
5. What is a classless routing protocol?
  
  
  
  
  
  
  
  
  
  
6. What command will identify if load balancing is being used?
  
  
  
  
  
  
  
  
  
  
7. When would you use a distance-vector routing protocol?
  
  
  
  
  
  
  
  
  
  
8. Why use a routing protocol?

9. Describe the differences and similarities of distance-vector protocols and link-state protocols.

10. What is convergence? Why is it important?

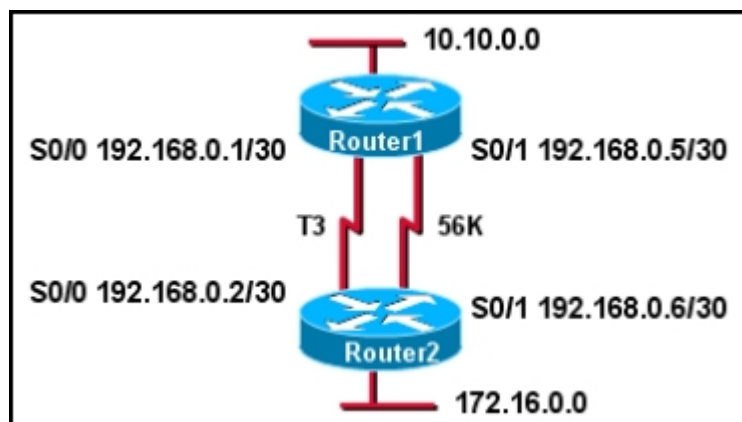
11. What metric is used by Rip? EIGRP? OSPF?

12. The following line of code is displayed in a routing table:

```
R 209.165.201.0/24 [120/2] via 192.168.252.2, 00:00:16, S0/0/0
```

What is the routing protocol? Metric? Administrative Distance?

13. When will a directly connected route be placed in the routing table?



14. What is the best path from 172.16.0.0 to 10.10.0.0 when using EIGRP? RIP?

15. As a network administrator, what should be considered when switching from a static routing policy to dynamic routing?