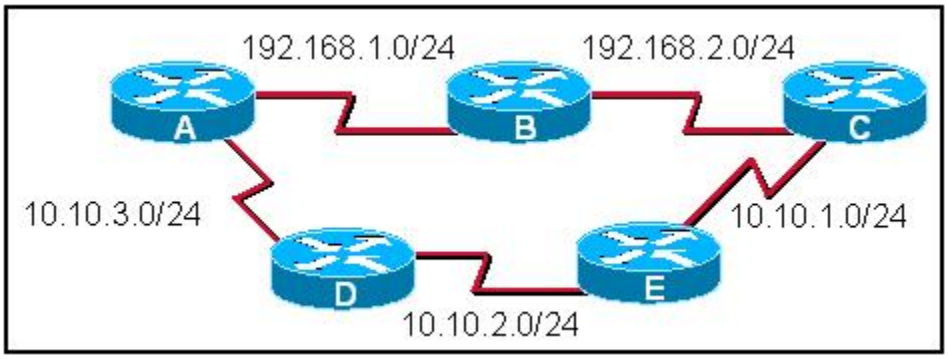
NAME:_____ DATE: _____

Northampton Community College
CISC267 – CCNA 2 - Chapter 5 Study Guide



1. All routers in the exhibit are running RIP v1. The network administrator issues the **show ip route** command on router E. What routes would appear in the routing table output if the network is converged?

2. What command would configure a gateway of last resort?

3. As a network administrator, you issue the **network 10.4.0.0** command at the router prompt. How will RIPv1 advertise this route? How will RIPv2 advertise it?

4. What command would you issue to see real time RIP activity?

5.
```
rtl#show ip route 1.0.0.0
Routing entry for 1.0.0.0/8
  Known via "rip", distance 120, metric 1
  Redistributing via rip
  Advertised by rip (self originated)
  Last update from 192.168.57.7 on Serial0/0, 00:00:08 ago
  Routing Descriptor Blocks:
  * 192.168.75.7, from 192.168.75.7, 00:00:15 ago, via FastEthernet0/0
      Route metric is 1, traffic share count is 1
    192.168.57.7, from 192.168.57.7, 00:00:08 ago, via Serial0/0
      Route metric is 1, traffic share count is 1
```
Explain the above output. What is the * for?

6. Given the following routing table entry
   R 192.168.5.0/24 [120/6] via 192.168.12.2, 00:00:30, Serial0/0/1
   a. Identify the administrative distance:
   b. Identify the metric:
   c. Identify the next hop:

7. What are the limitations of RIPv1 versus RIPv2

8. In a multi router network, which router would receive a default route and the **default-information originate** command?

9. What are the key components displayed after issuing the **show ip protocols** command?

10. What is the default update period for RIP?

11. What command what delete a network from being advertised by RIP?

12. What is the metric for RIP?