Name: _____   Date: _____

1. We need to setup multiple NICs for the Windows Server 2003. What should we name the Network Interface Cards?

2. Most businesses and home LANs run class C networks. The maximum number of devices on the network is 254. What two IP addresses are not allowed on a class C network?

3. When running a Static IP network, what three IP addresses are included in the setup?

4. After setting up your Server and your external network connection, you connect the Category 5e cable to the 100 Mbps NIC and test the link to the router by typing _____ at the command line.

5. Where can we add more DNS addresses which include the two addresses provided by the ISP, two free ones on Google's free servers and our own company's DNS server?

6. Where can we add more Gateway addresses which include the primary and secondary router and the backup connection to the satellite wide area connection?

7. Elliot wants to build a small business network that has 24 computers. He chooses a class C TCP/IP scheme with the 192.168.100 network address. He decided to use a subnetting division to reduce the possible number of computers to 30. In his subnetting scheme, what are the correct network IP address, broadcast IP address, usable IP addresses and subnet mask?

8. Cherri can ping the router successfully but is unable to visit the Internet. What IP address is entered wrong?

9. Roan wants to register the computer loaded with Windows Server 2003. What does the server's wide area network address have to be?

10. Sherry sees the ISP's gateway address for the business network with 8 computers is 62.0.0.1 with the subnet mask 255.255.255.248. What class address is the ISP distributing?

11. Terry wants to build a medium business network that has 400 computers. He chooses a class B TCP/IP scheme with the 130.10 network address. He decided to use a subnetting division to reduce the possible number of computers to 510. In his subnetting scheme, what are the correct network IP address, broadcast IP address, usable IP addresses and subnet mask?

12. What are the IP addresses for the free Google DNS servers?

13. What Windows 2003 Servers only need one Network Interface Card (NIC)?

14. Karen just loaded the computer with Windows Server 2003 and she does not see any Network Interface Cards under the Network Connections window. What does Marsha need to load?

15. How many bits in a TCP/IPv4 address?

16. What does the binary number 11111101 equal?

17. In the class A subnetting scheme, we have 255 in the first octet for the class A mask and 192 in the second octet to tell we have _____ subnets.

18. IP address are typically assigned to what network devices?

19. Your IP address in your business is 202.10.10.1. What is the maximum number of devices we can have on this network?