1: Your junior network administrator wants to know what the default subnet mask is for a Class C IP address. What do you tell him? A. 255.0.0.0 B. 255.255.0.0 C. 255.245.255.0 D. 255.255.255.0 E. 255.255.255.255 2: An application needs to have reliable, end-to-end connect-ivity. Which of the following protocols will give you reliable connectivity? A. TCP B. UDP C. IP D. ICMP 3: You are designing a network, which needs to support 55 users. You dont plan to extend the segment beyond the current number of users. Which subnet mask would best meet your needs? A. 255.255.0.0 B. 255.255.255.0 C. 255.255.255.192 D. 255.255.255.160 4: You have added a new switch to your network. You want to manage it remotely, so you need to assign it an IP address. Your router that connects to the switch has an IP address of 172.16.12.33/27. Which of the following addresses can you assign to this switch? A. 172.16.12.33/28 B. 172.16.12.32/27 C. 172.16.12.33/27 D. 172.16.12.34/27 E. 172.16.12.35/28 F. 172.16.12.38/28 G. 172.16.12.63/27 5: The address 172.16.208.16/20 is a host address in which of the following subnets? A. 172.16.176.0255.255.240.0 B. 172.16.192.0255.255.240.0 C. 172.16.208.0255.255.240.0 D. 172.16.224.0255.255.240.0 6: You are designing an IP address scheme for your brand new remote office. The vice president of IT calls to tell you that you will be in charge of the 192.168.1.64/26 subnetwork. This supplies you with a single

subnetwork with 62 hosts. You need to have at least two subnets with 14 hosts in each subnet. What custom subnet mask should you use? A. 255.255.255.128 B. 255.255.255.192 C. 255.255.255.224 D. 255.255.255.240 E. 255.255.255.248 7: You have subnetted the 210.106.14.0 network with a /24 mask. Your boss at Acme, Inc. wants to know how many usable subnetworks and usable host addresses per subnet this would provide. What should you tell her? A. One network with 254 hosts B. Two networks with 128 hosts C. Four networks with 64 hosts D. Six networks with 30 hosts 8: Identify three valid host addresses in any subnet of the 201.168.27.0 network, assuming a fixed subnet mask of 255.255.255.240. (Choose three.) A. 201.168.27.33 B. 201.168.27.112 C. 201.168.27.119 D. 201.168.27.126 E. 201.168.27.175 F. 201.168.27.208 9: What is the subnetwork address for a host with the IP address 201.100.5.68/28? A. 201.100.5.0 B. 201.100.5.32 C. 201.100.5.64 D. 201.100.5.65 E. 201.100.5.31 F. 201.100.5.1 10: Which of the following protocols uses a three-way handshake mechanism to establish sessions? A. TCP B. IP C. UDP D. IPX E. Frame relay 11: Which of the following protocols is connection-oriented? A. TCP B. IP C. IPX D. Frame relay 12: You are using an application on your Windows 2000 client machines that provides error correction. You need a protocol to provide fast transport. Which protocol should your application use? A. TCP B. IP C. UDP D. SPX E. AppleTalk 13: When using TCP, after a session is open, the applications can adjust the number of segments they receive before sending an acknowledgment. This behavior is known as _____. A. MTU adjustment B.

Windowing C. Flexible Send Path D. FCS 14: If the destination did not receive a segment, how will the TCP host know to resend the information? A. The ACK received will not include the segment number that was not received. B. The ACK received will include the segment number that was not received. C. The sending host will send a PACK to verify segment receipt. D. The destination host will send a YACK message back to the sending host. 15: You are planning on using a single network that supports 208 users. Which IP address class would you choose to be the most efficient? A. Class A B. Class B C. Class C D. Class D E. Class E 16: RFC 1918 defines the private IP address ranges. Which of the following IP addresses are considered part of these ranges? (Choose three.) A. 10.23.45.67 B. 126.21.34.56 C. 172.16.32.1 D. 172.31.234.55 E. 192.169.4.5 17: A new network is being designed for your company, Acme, Inc. If you use a Class C IP network, which subnet mask will provide one usable subnet per department while allowing enough usable host addresses for each department specified in the table? Department Number of Users Corporate 7 Customer Support 15 Financial 13 HR 7 Engineering 16 A. 255.255.255.0 B. 255.255.255.192 C. 255.255.255.224 D. 255.255.255.240 E. 255.255.255.248 18: Which of these protocols provides data transport, relying on the error correction capabilities of the application itself? A. UDP B. TCP C. SNMP D. ICMP 19: Which of the following are used by TCP to ensure reliable delivery of data? (Choose two.) A. MAC address resolution B. Sequence numbers C. Acknowledgments D. Ping E. Routing Oupdates 20: You discover that you are able to adjust the window size of the TCP segment. You

increase the window size to test the results. What will you observe happening on your network? A. Increased throughput B. Decreased throughput C. Increased latency D. Decreased reliability 21: Your organization is using the 192.168.1.0/24 address space. You need 28 subnets. What subnet mask would you use to create these subnets? A. 255.255.255.0 B. 255.255.255.128 C. 255.255.255.192 D. 255.255.255.224 E. 255.255.255.240 F. 255.255.255.248 22: Which of the following protocols maps IP addresses to MAC addresses for connectivity to occur between two hosts? A. ARP B. RARP C. SLARP D. DHCP 23: Your junior network administrator cannot seem to ping a host in another network and asks you why it isnt working. Which of the following is not an answer that you would give him? A. The hosts default gateway is down. B. The destination host is not powered on. C. The IP address of the router interface is incorrect. D. The IP address of the switch to which the destination host connects is incorrect. E. The host is in a different subnet. 24: Which of the following classes of IP addresses is utilized for multicasting? A. Class A B. Class B C. Class C D. Class D 25: You give your IT department a spreadsheet of IP addresses and their subnets. You receive a call from one of the junior techs asking what the /26 means next to the IP addresses. You tell her: A. It represents the number of hosts possible on that subnetwork. B. It represents the number of subnetworks that are being used. C. It represents the class of IP address being used. D. It represents the number of bits in the subnet mask that are 1. 100Test