TCP/IP Fundamentals Quiz 2

Nar	me: Date:
1.	What is the range of the first octet on a Class A TCP/IP address?
2.	What is the range of the first octet on a Class B TCP/IP address?
3.	What is the range of the first octet on a Class C TCP/IP address?
4.	How many bits in a version 4 TCP/IP address?
5.	We are building a small home network and we purchase a router that has a default address of 192.168.0.1. What TCP/IP address should we use? a. 255.255.255.0 b. 192.168.0.1 c. 198.10.0.1 d. 224.0.0.10
6.	What is the subnet mask for a Class A TCP/IP address?
7.	What is the subnet mask for a Class B TCP/IP address?
8.	What is the subnet mask for a Class C TCP/IP address?
9.	What is the binary number 10101011 in base 10?
10.	What is the base 10 number 255 in binary?
11.	We reserve what octet for LAN managers?
12.	What network device is capable of translating the TCP/IP to another protocol?

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13.	_	gh TCP/IP is a 4-layer protocol we can com seven layers of the OSI Model from layer 7	pare it to the functioning of the OSI Model. What (top) to layer 1 (bottom)?		
	7				
	6				
	5				
	4				
	3				
	2				
	1				
14.	Each qu	uad of the TCP/IP dot quad has how many b	pits?		
15.	How many addresses can we have on a Class C TCP/IP network?				
16.	How ma	any addresses can we have on a Class B TCl	P/IP network?		
17.	How ma	any addresses can we have on a Class A TC	P/IP network?		
		,			
18.	In a large university exceeds the number of devices they can use on a Class TCP/IP network, where they can do?				
19.	After learning the basics of TCP/IP addressing, a technician needs to know their binary math to construct what <u>two</u> functions?				
20.		s the network address for the TCP/IP address 199.5.5.5?	ress 199.5.5.5? What is the computer address for		
21.	What is the network address for the TCP/IP address 56.25.10.254? What is the computer address for the TCP/IP address 56.25.10.254?				

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22.	What is the network address for the TCP/IP address 150.25.67.98? What is the computer address for the TCP/IP address 150.25.67.98?				
23.	On a Cl	ass C TCP/IP address, what <u>two</u> computer addresses are not available to be assigned?			
24.	The Police Department Agency wants a redundant network with three layers of communication. All of their computers have a single embedded NIC. There are 34 computers in the main room; there are 16 detective stations with three computers each. The maintenance department has 12 computers and the administration office has 24 computers. We need to order devices along with an addition 10% for spares. How may NICs do we need to order? Show your work.				
25.	What t	ool can you use to check the path from a Windows Operating System to a network host?			
	a.	PING			
		Network Monitor			
	С.	TCP/IP Route Monitor			
	d. e.	SNMP Tracert			
26	Thic ch	ows the class of the TCP/IP address used and divides a network into sub-networks to control			
20.		k traffic.			
		IP address			
		DNS address			
	С.	Subnet mask			
		Decimal dotted notation			
27	A notw	ork topology that is used to establish redundant communication links is a			
<i>∠/</i> .	a.	Mesh			
	a. b.	Ring			
	о. С.	Buss			
		Star			
	d.	2191			