TCP/IP Fundamentals Quiz

Na	me:	Date:
1.	What is	s the range of the first octet on a Class A TCP/IP address?
	a.	
	b.	1-126
	C.	0-128
	d.	1-128
2.	What is	s the range of the first octet on a Class B TCP/IP address?
	a.	127-192
	b.	128-190
	C.	128-191
	d.	128-192
3.	What is	s the range of the first octet on a Class C TCP/IP address?
	a.	192-223
	b.	191-224
	C.	192-221
	d.	191-223
4.	How many bits in a version 4 TCP/IP address?	
	a.	8
	b.	16
	c.	24
	d.	32
5. We refer to TCP/IP as a		er to TCP/IP as a, because of the multiple specifications it contains such as HTTP,
	HTML a	and FTP.
	a.	Rulebook
	b.	Single protocol
	c.	Suite
	d.	WAN protocol
6.	What is	s the subnet mask for a Class A TCP/IP address?
	a.	255.255.255.0
	b.	255.255.0.0
	c.	255.0.0.0
	d.	255.255.255
7. What is the subnet mask for a Class B T		s the subnet mask for a Class B TCP/IP address?
	a.	255.255.255.0
	b.	255.255.0.0
	c.	255.0.0.0

d. 255.255.255.255

8.	What is	is the subnet mask for a Class C TCP/IP address?	
	a.	255.255.255	
	b.	255.255.255.0	
	c.	255.255.0.0	
	d.	255.0.0.0	
9.	What is	is the binary number 01010101 in base 10?	
	a.	85	
	b.	86	
	c.	192	
	d.	4	
10.	What is	is the base 10 number 255 in binary?	
	a.	00000000	
	b.	11111110	
	c.	11111100	
	d.	1111111	
11.	We res	serve what octet for LAN managers?	
	a.	126	
	b.	0	
	c.	127	
	d.	224	
12.	What n	network device is capable of translating the TCP/IP to another protocol?	
	a.		
	b.	Repeater	
	C.	Wireless router	
	d.	NIC	
13.	Althou	ugh TCP/IP is a 4-layer protocol we can compare it to the functioning of the OSI Model	. What
	are the	e seven layers of the OSI Model from layer 7 (top) to layer 1 (bottom)?	
	7	7	
	6	5	
	5	5	
	4	1	
	3	3	
	2		
	1		

- TCP/IP Fundamentals Quiz 14. Each quad of the TCP/IP dot quad has how many bits? a. 24 b. 1 c. 16 d. 8 15. How many addresses can we have on a Class C TCP/IP network? a. 256 b. 255 c. 254 d. 16536 16. How many addresses can we have on a Class B TCP/IP network? a. 65534 b. 25500 c. 47818 d. 10111 17. How many addresses can we have on a Class A TCP/IP network? a. Almost 17 million
- d. Almost 16 billion18. If a large university exceeds the number of devices they can use on a Class TCP/IP network, what is
 - a. Change to version 5 of the TCP/IP protocol
 - b. Change to version 4 of the TCP/IP protocol
 - c. Change to version 6 of the TCP/IP protocol
 - d. Change to version 7 of the TCP/IP protocol
- 19. After learning the basics of TCP/IP addressing, a technician needs to know their binary math to construct what **two** functions?
 - a. Subrouting

b. Almost 16 millionc. Almost 17 billion

the best thing they can do?

- b. Subnetting
- c. Supernetting
- d. Subtracting
- 20. What is the network address for the TCP/IP address 198.128.10.25?
 - a. 198
 - b. 198.128
 - c. 198.128.10
 - d. 192.128.10.25

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21.	What is	s the network address for the TCP/IP address 65.32.98.254?	
	a.	65	
	b.	65.32	
	c.	65.32.98.254	
	d.	65.32.98	
22.	What is	s the network address for the TCP/IP address 32.0.0.10?	
	a.	32	
	b.	32.0	
	c.	32.0.0	
	d.	32.0.0.10	
23.	On a Class C TCP/IP address, what <u>two</u> computer addresses are not available to be assigned?		
	a.	256	
	b.	255	
	c.	254	
	d.	0	
	e.	1	
24.	Why w	ould we not want to assign the factory default IP address to a router?	
25.	The Int	elligence Agency wants a redundant network with three layers of communication. All of their	
	compu	ters have a single embedded NIC. There are 72 computers in the observation room; there are	
	42 ana	lysis stations with three computers each. The maintenance department has 18 computers and	
	the adi	ministration office has 47 computers. We need to order devices along with an addition 10%	
	for spa	res. How may NICs do we need to order? Show your work.	