Guide to Networking Essentials 6th Edition Tomsho Test Bank

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Introduction to Computer Networks Chapter 1

TRUE/FALSE

IKUI	L/FALSE									
1.	File and printer shar	ring for N	Microsoft netwo	orks is	an example of a network protocol.					
	ANS: F	PTS:	1	REF:	Page 16					
2.	A network that has locations in different countries is considered a WAN.									
	ANS: T	PTS:	1	REF:	Page 28					
3.	In order to find out y	your MA	C address, you	should	l open a command prompt and type ipconfig /all.					
	ANS: T	PTS:	1	REF:	Page 23					
4.	What makes a comp	outer a "s	server" is the fa	ct that	it has a server operating system installed on it.					
	ANS: T	PTS:	1	REF:	Page 33					
5.	Each component of a computer is designed to perform only one specific task—either input, processing, or output.									
	ANS: F	PTS:	1	REF:	Page 2					
MUL	TIPLE CHOICE									
1.	town. To connect the	e two of	fices, they will	need a	n, and a brand new office in the newer section of dedicated line, probably leased from the local phone ementing to connect their two offices?					
	a. LANb. internetworkc. MANd. SAN									
	ANS: C	PTS:	1	REF:	Page 28					
2.	Airwaves are an exa	imple of	what type of no	etwork	component?					
	a. Network Interfab. network mediunc. interconnectingd. network protoco	n device								
	ANS: B	PTS:	1	REF:	Page 15					
3.	Windows 7, Window	ws Vista,	, and Windows	XP are	all examples of which of the following?					

	c. server softwared. server operating	systems	.						
	ANS: B	PTS:	1	REF:	Page 33				
4.	What is one of the disadvantages of a peer-to-peer network compared to a server-based network?								
	a. more difficult tob. more expensivec. higher administred. limited security								
	ANS: D	PTS:	1	REF:	Page 35				
5.	What command would you issue from a command prompt to see a listing of the computers in your workgroup?								
	a. arp -ab. net viewc. ipconfig /alld. ping								
	ANS: B	PTS:	1	REF:	Page 39				
6.	What is one of the disadvantages of a server-based network compared to a peer-to-peer network?								
	a. additional costsb. decentralized datec. difficult to expand. less secure		S						
	ANS: A	PTS:	1	REF:	Page 37				
7.	For any device to communicate with the computer, either through input or output, it must have what special software installed?								
	a. clientb. network interfacec. network protocold. device driver								
	ANS: D	PTS:	1	REF:	Page 13				
	When data is being prepared for transmission onto the network, it is broken into small pieces and a header and trailer are added to each piece to help identify it. What is this process called?								
	a. multitaskingb. verificationc. encapsulationd. application								
	ANS: C	PTS:	1	REF:	Page 32				

9.	Every NIC is embedding this address called?	ded with	n a unique addr	ess that	consists of a 12-digit hexadecimal value. What is
	a. IP addressb. subnet maskc. MAC addressd. default gateway				
	ANS: C	PTS:	1	REF:	Page 23
10.	What was the primar	y reaso	n to create a ne	twork?	
	a. share resourcesb. communicate wic. share informationd. all of the above		il		
	ANS: D	PTS:	1	REF:	Page 14
11.		mory o	nboard. You ne	eed to m	to install a dedicated graphics card that has a fast nake sure that you have the right connector available ld be appropriate?
	a. PCIb. SATAc. PCI-Expressd. IDE				
	ANS: C	PTS:	1	REF:	Page 6
12.		the pro-			e building and your motherboard only has one CPU ed a CPU that provides more than one processor.
	a. multicoreb. multiplec. multifacetedd. multilink				
	ANS: A	PTS:	1	REF:	Pages 3-4
13.	Which component, loprograms? a. hard drive b. RAM c. NIC d. CPU	ocated o	on the motherbo	oard, ca	rries out all the instructions provided by computer
	ANS: D	PTS:	1	REF:	Page 3
14.	accounting departme	nt from	the rest of the	networl	and you want to separate the traffic from the k. However, the accounting department still needs to of network do you need to implement?
	a. WPAN				

	c. WAI	network N less network						
	ANS: B		PTS:	1	REF:	Page 26		
15.	Which part of the network communication process is responsible for sending and receiving data to and from the network media?							
	b. netw	ork software ork protocol application driver						
	ANS: D		PTS:	1	REF:	Page 17		
16.	Texas. Y impleme a. MAN b. WAN c. inter	ou need to m nting? N				cated in Arizona that has just opened an office in as can communicate. What type of network are you		
	ANS: B		PTS:	1	REF:	Page 28		
17.	You have just started a new business. You need to have three to four workstations available for your employees who simply need to share some files and a printer, but you don't have a large budget. Security is not a major concern, but costs are. What type of network would be the most appropriate for your situation?							
	b. domac. peer-	network ain -to-peer netw er-based netv						
	ANS: C		PTS:	1	REF:	Pages 34-36		
MUL	TIPLE R	ESPONSE						
			ng are e	examples of our	tout dev	ices? (Choose all that apply.)		
	a. moni b. print c. keyb d. hard e. CPU	itor er oard disk		,	F *** ***	The state of the s		
	ANS: A	, B, D	PTS:	1	REF:	Page 4		
2.	Which of	f the following	ng are e	examples of inp	out devi	ces? (Choose all that apply.)		
	a. mous b. moni c. DVE	itor						

COM	PLETI	ION		
1.	The th	ree basic fu	inctions of	a computer are input,, and output.
	ANS:	processing	r	
	111101	processing	•	
	PTS:	1	REF:	Page 2
2.	-	cc	omponents i	include devices such as printers, disk drives, network cards, and monitors.
	ANS:	Output		
	PTS:	1	REF:	Page 4
3.				that has been encapsulated with the source and destination MAC an error-checking code in the trailer.
	ANS:	frame		
	PTS:	1	REF:	Page 32
4.		are two dif		ork models. One of them, a peer-to-peer network, also is referred to as a
	ANS:	workgroup	9	
	PTS:	1	REF:	Page 34
5.		is	an operatin	ng system's ability to execute more than one process at a time.
	ANS:	Multitaski	ng	
	PTS:	1	REF:	Page 13
6.				is broken into chunks of data and then encapsulated with the source and reate a
	ANS:	packet		
	PTS:	1	REF:	Pages 30-31

MATCHING

d. scannere. printer

ANS: A, C, D PTS: 1 REF: Page 3

Match each item with a statement below:

- a. motherboard
- b. internetwork
- c. BIOS
- d. LAN
- e. CPU
- f. hard drive
- g. WAN
- h. NIC
- i. RAM
- j. CMOS
- 1. short-term storage
- 2. main processing component of the computer
- 3. nerve center of the computer
- 4. contains instructions for the computer's boot process
- 5. network that connects devices in a small geographic area
- 6. long-term storage
- 7. network that is geographically dispersed
- 8. type of memory that holds the system configuration information
- 9. connection between the computer and the network
- 10. networks connected with a router

1.	ANS:	I	PTS:	1	REF:	Page 4
2.	ANS:	E	PTS:	1	REF:	Page 3
3.	ANS:	A	PTS:	1	REF:	Page 5
4.	ANS:	C	PTS:	1	REF:	Page 8
5.	ANS:	D	PTS:	1	REF:	Page 26
6.	ANS:	F	PTS:	1	REF:	Page 5
7.	ANS:	G	PTS:	1	REF:	Page 28
8.	ANS:	J	PTS:	1	REF:	Page 9
9.	ANS:	H	PTS:	1	REF:	Page 15
10.	ANS:	В	PTS:	1	REF:	Page 26

SHORT ANSWER

1. What is the difference between short-term storage and long-term storage?

ANS:

Data that is stored in short-term storage is completely erased when the computer is powered off. When the computer is turned back on, there is no trace of any previous data. The computer transfers programs and files into this short-term storage to make it readily available for the CPU. Long-term storage retains its data even when no power is applied to the computer. Long-term storage is where programs and files are stored.

PTS: 1 REF: Pages 4-5

2. How do you access the BIOS setup utility?

ANS:

Turn your computer on and watch the first screen that appears carefully as it will have a message. This message will tell you what key to press to enter the BIOS. When you know what key to press, do so quickly. If you do not press the key in time, the computer will continue to boot. After it boots, shut down the computer and try again.

PTS: 1 REF: Page 10

3. What is the difference between a LAN, a MAN, and a WAN?

ANS:

A LAN is a group of computers connected by a network device, such as a hub or switch, that is located in a small area, such as an office building. LAN connections usually have high data transfer rates and use UTP cabling. A MAN is a slightly larger implementation of a LAN that spans a greater area, usually making it necessary to lease telecommunication lines from a local phone company. A WAN is a network that covers a much larger area. It can be in the same state, or across several states, or across several countries. It usually connects several LANs together using high-speed, public communication links that are typically very expensive.

PTS: 1 REF: Pages 26-29

4. What are the three basic tasks performed by a computer?

ANS:

Input, processing, and output. First, it accepts input. Input can come from several different devices like a mouse, a keyboard, or storage. Input usually is generated by a user's actions, but not always. Next, the CPU processes the input, which means that it examines the input and determines or calculates the results. Finally, the CPU sends instructions to whatever device is appropriate to perform or display the output. Output devices include, but are not limited to, monitors, printers, and storage devices.

PTS: 1 REF: Pages 2-3

5. What is a peer-to-peer network, and what are it's advantages and disadvantages?

ANS:

A peer-to-peer network is a collection of computers in which each computer can act as a client or a server, or both, and each has equal authority. Advantages of a peer-to-peer network are that it is easy to install, is relatively inexpensive to implement, doesn't require extensive training or special staff, and the lose of a single machine will not cripple the network. Disadvantages include lack of security, difficult to locate resources, reduced performance when computer is acting as server, and limitation on the number of users.

PTS: 1 REF: Pages 34-36

6. What is a server-based network, and what are it's advantages and disadvantages?

ANS:

A server-based network is a network that has certain computers that take on the role of servers, and all the other computers act as clients. The advantages are centralized control over network resources, better security, easy expandability, and no limitations to the number of users. The disadvantages include higher costs for equipment and software, the need for administrative personnel to maintain network resources, and the fact that a single computer could cause the entire network to fail.

PTS: 1 REF: Pages 36-37

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7. What is the difference between a client operating system and a server operating system?

ANS:

A client operating system is designed mainly to run user applications like a word processor or spreadsheet program and to access network resources like file servers or the Internet. A server operating system is designed to provide clients with access to network resources such as directory services, shared files, and e-mail.

PTS: 1 REF: Page 33

8. Explain the boot procedure.

ANS:

First, power is supplied to the motherboard. Second, the CPU starts. Third, the CPU gets the configuration information from the BIOS and carries out the startup routines, which include performing the POST. The BIOS searches the boot devices for an OS. After an OS is found, it is loaded into RAM, and finally, the OS services are started.

PTS: 1 REF: Page 9

9. What is the purpose of a device driver?

ANS:

A device driver is software that acts as the intermediary between a device and the OS. It handles all requests to and from the device. Whether an input device has data ready to send or an output device is ready for use, the device must have some way of contacting the OS. The device driver accomplishes this by sending a signal in the form of an interrupt.

PTS: 1 REF: Pages 13-14

10. Judy has just sent a ping message from her computer to John's computer to verify that she has connectivity. List the steps that the message takes to get to the other computer and what layer of the network communication process each step relates to.

ANS:

First, Judy opens a command prompt and types the command "ping 192.168.0.10". This is the user application layer. The next step is for Judy's computer to create the ping message to send to John's computer. This is the network software layer. The ping message then is encapsulated with the IP addresses of both Judy's computer and John's, which are the source and destination IP addresses. At this step, Judy's computer also finds out what the MAC address of John's computer is, which will be the destination MAC address. Both of these steps are part of the network protocol layer. Finally, Judy's computer adds her MAC address and John's MAC address (source and destination MAC addresses) to the package, converts the message into bits, and sends it to the network medium. This is the network interface step.

PTS: 1 REF: Pages 19-20