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Introduction to Computer Networks

Chapter 1

TRUI	E/FA	LSE
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ANS: B

1.	File and printer shari	ng for M	icrosoft netwo	rks is a	an example of a network protocol.	
	ANS: F	PTS:	1	REF:	Page 16	
2.	A network that has lo	ocations in	n different cou	intries	is considered a WAN.	
	ANS: T	PTS:	1	REF:	Page 28	
3.	In order to find out y	our MAC	C address, you	should	open a command prompt and type ipconfig /all.	
	ANS: T	PTS:	1	REF:	Page 23	
4.	What makes a compu	ıter a "se	rver" is the fac	et that i	t 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	ГІРЬЕ СНОІСЕ					
1.	town. To connect the	two offic	ces, they will r	need a	a, and a brand new office in the newer section of dedicated line, probably leased from the local phone menting to connect their two offices?	
	a. LANb. internetworkc. MANd. SAN					
	ANS: C	PTS:	1	REF:	Page 28	
2.	Airwaves are an exar	nple of w	what type of ne	twork	component?	
	a. Network Interfaceb. network mediumc. interconnecting ofd. network protocol	levice				

3. Windows 7, Windows Vista, and Windows XP are all examples of which of the following?

REF: Page 15

PTS: 1

	a. network protocob. client operatingc. server softwared. server operating	systems	3		
	ANS: B	PTS:	1	REF:	Page 33
4.	What is one of the d	isadvant	ages of a peer-	to-peer	network compared to a server-based network?
	a. more difficult tob. more expensivec. higher administrd. limited security				
	ANS: D	PTS:	1	REF:	Page 35
5.	What command workgroup?	ıld you i	ssue from a con	mmand	prompt to see a listing of the computers in your
	a. arp -ab. net viewc. ipconfig /alld. ping				
	ANS: B	PTS:	1	REF:	Page 39
6.	What is one of the d	isadvant	ages of a serve	r-based	network compared to a peer-to-peer network?
	a. additional costsb. decentralized dac. difficult to expandd. less secure		s		
	ANS: A	PTS:	1	REF:	Page 37
7.	For any device to co special software inst		ate with the co	mputer	either through input or output, it must have what
	a. clientb. network interfacec. network protocod. device driver				
	ANS: D	PTS:	1	REF:	Page 13
8.					the network, it is broken into small pieces and a dentify it. What is this process called?
	a. multitaskingb. verificationc. encapsulationd. application				
	ANS: C	PTS:	1	REF:	Page 32

9.	Every NIC is embedded w this address called?	vith a unique addre	ess that	consists of a 12-digit hexadecimal value. What is
	a. IP addressb. subnet maskc. MAC addressd. default gateway			
	ANS: C PTS	S: 1	REF:	Page 23
10.	What was the primary rea	son to create a net	work?	
	a. share resourcesb. communicate with e-rc. share informationd. all of the above	mail		
	ANS: D PTS	S: 1	REF:	Page 14
11.		onboard. You nee	ed to ma	to install a dedicated graphics card that has a fast ake sure that you have the right connector available ld be appropriate?
	a. PCIb. SATAc. PCI-Expressd. IDE			
	ANS: C PTS	S: 1	REF:	Page 6
12.				building and your motherboard only has one CPU and a CPU that provides more than one processor.
	a. multicoreb. multiplec. multifacetedd. multilink			
	ANS: A PTS	S: 1	REF:	Pages 3-4
13.	Which component, located programs? a. hard drive b. RAM c. NIC d. CPU	d on the motherboa	ard, car	ries out all the instructions provided by computer
	ANS: D PTS	S: 1	REF:	Page 3
14.	accounting department fro	om the rest of the n	network	nd you want to separate the traffic from the a. However, the accounting department still needs to of network do you need to implement?
	a. WPAN			

	b. internetworkc. WANd. wireless network ANS: B PTS	. 1	DEE.	Page 26
	ANS. B	. 1	KET.	rage 20
15.	Which part of the network from the network media?	communication	process	is responsible for sending and receiving data to and
	a. network softwareb. network protocolc. user applicationd. NIC driver			
	ANS: D PTS	1	REF:	Page 17
16.				ocated 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.	employees who simply nee	d to share some	files an	have three to four workstations available for your d a printer, but you don't have a large budget. It type of network would be the most appropriate for
	ANS: C PTS	1	REF:	Pages 34-36
MUL	TIPLE RESPONSE			
1.	Which of the following are	examples of ou	tput dev	vices? (Choose all that apply.)
	a. monitorb. printerc. keyboardd. hard diske. CPU			
	ANS: A, B, D PTS	1	REF:	Page 4
2.	Which of the following are	examples of inj	put devi	ces? (Choose all that apply.)
	a. mouseb. monitorc. DVD			

COM	PLETI	ION		
1.	The th	ree basic funct	ions of	a computer are input,, and output.
	ANS:	processing		
	PTS:	1	REF:	Page 2
2.		comp	onents 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 differe		ork models. One of them, a peer-to-peer network, also is referred to as a
	ANS:	workgroup		
	PTS:	1	REF:	Page 34
5.		is an	operatir	ng system's ability to execute more than one process at a time.
	ANS:	Multitasking		
	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

REF: Page 3

MATCHING

d. scannere. printer

ANS: A, C, D

PTS: 1

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

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