## **CHAPTER 8:**

# NETWORKING AND DIGITAL COMMUNICATION

#### **Multiple Choice:**

- 1. A basic computer network can be described as:
  - A. a minimum of five computers linked together.
  - B. a number of palmtop computers.
  - C. two or more computers that are linked together.
  - D. the use of satellites linking computers together.

Answer: C Reference: Basic Network Anatomy Difficulty: Easy

- **2.** The three essential components of every computer system include all of the following EXCEPT:
  - A. software.
  - B. hardware.
  - C. people.
  - D. cables.

Answer: D Reference: Basic Network Anatomy Difficulty: Easy

- 3. All of the following are advantages of using a computer network EXCEPT that it:
  - A. reduces costs when hardware is shared.
  - B. promotes independence so users have exclusive control over their own data and applications.
  - C. saves money when software is shared.
  - D. enables data sharing, increasing efficiency and productivity.

Answer: B Reference: Basic Network Anatomy Difficulty: Easy

4.	All of	the	e following statements are true EXCEPT:	
		A.	Wireless networks are convenient.	
		B.	Wireless networks are generally slower than wired LANs.	
		C.	Wireless networks use radio transmitters.	
		D.	Wireless networks are generally faster than wired networks.	
Ansv	wer: D		Reference: Networks Near and Far	Difficulty: Moderate
5.	A(n)		broadcasts messages to all devices connected to a LA	N.
		A.	switch	
		B.	port	
		C.	hub	
		D.	node	
Ansv	wer: C		Reference: Networks Near and Far	<b>Difficulty:</b> Moderate
6.	In a lo	ocal	area network, a only transmits data to the destina	tion node.
		A.	switch	
		В.	port	
		C.	hub	
		D.	router	
Ansv	wer: A		Reference: Networks Near and Far	<b>Difficulty:</b> Moderate
7.	LAN	star	nds for:	
		A.	local area nodes.	
		В.	logical arrangement of networks.	
		C.	local area network.	
		D.	linked-area network.	
Ansv	wer: C		Reference: Networks Near and Far	Difficulty: Easy

8.	The pr	ima	ary difference between a LAN and a WAN is the:	
	A	Α.	number of software programs available.	
	F	3.	geographical area.	
	(	Z.	variety of hardware devices.	
	Ι	Э.	number of hardware devices.	
Answ	er: B		Reference: Networks Near and Far	Difficulty: Moderate
9.	Each in	ndi	vidual computer and networked peripheral attached to a LAN is a	1:
	A	Α.	node.	
	F	3.	GPS receiver.	
	(	<b>C.</b>	router.	
	Ι	Э.	mesh network.	
Answ	ver: A		Reference: Networks Near and Far	Difficulty: Easy
10.	Standa	rd	telephone cables containing copper wires are known as	cable.
	A	Α.	coaxial	
	F	3.	fiber-optic	
	(	Ξ.	Wi-Fi	
	Ι	Э.	twisted pair	
Answ	er: D		Reference: Networks Near and Far	Difficulty: Moderate
11.	All of	the	following are true of a wireless network EXCEPT:	
	A	Α.	computers at the nodes can run different operating systems.	
	F	3.	generally faster than wired LAN.	
	(	<b>C.</b>	less trouble to install.	
	Ι	Э.	convenient for users that work in many locations.	
Answ	er: B		Reference: Networks Near and Far	Difficulty: Moderate

12.	MAN	sta	nds for:	
	1	A.	metropolitan area network.	
	]	В.	multifunction area network.	
	(	C.	metropolitan arranged network.	
	]	D.	manufactured arrangement of networks.	
Answ	ver: A		Reference: Networks Near and Far	<b>Difficulty:</b> Easy
13.	The co	olle	ection of common pathways between networks on a WAN is know	vn as a:
	1	A.	node.	
	]	В.	hub.	
	(	C.	backbone.	
	]	D.	router.	
Answ	ver: C		Reference: Networks Near and Far	Difficulty: Challenging
14.	The de	evi	ce or program that forwards messages between networks is known	ı as a:
	1	A.	bridge.	
	]	B.	router.	
	(	C.	backbone.	
	]	D.	gateway.	
Answ	ver: B		Reference: Networks Near and Far	Difficulty: Moderate
15.	A(n) _ router		is often used to set up a temporary communications s	ystem that requires no centralized
	1	A.	extranet	
	]	В.	Ethernet	
	(	C.	mesh network	
	]	D.	intranet	
Answ	ver: C		Reference: Networks Near and Far	Difficulty: Moderate

16.	6. The U.S. Department of Defense uses a(n), which is a specialized network used determine locations, maps, and directions using signals from satellites that are orbiting the Earth.				
		A.	mesh network		
		B.	NIC		
		C.	Ethernet		
		D.	GPS		
Answ	er: D		<b>Reference:</b> Specialized Networks: From GPS to Financial Systems	<b>Difficulty:</b> Easy	
17.	The s	yste	em of satellites used to determine any position on the Earth is known as:		
		A.	GPS.		
		B.	LAN.		
		C.	Wi-Fi.		
		D.	MAN.		
Answ	er: A		<b>Reference:</b> Specialized Networks: From GPS to Financial Systems	<b>Difficulty:</b> Easy	
18.	A set	of p	parallel wires that carries digital signals among a computer's components	is called a(n):	
		A.	peripheral.		
		B.	port.		
		C.	bus.		
		D.	medium.		
Answ	er: C		Reference: The Network Interface Difficu	ılty: Moderate	
19.	In the	19	70s, Xerox developed, which continues to be a popular ne	etworking architecture.	
		A.	Wi-Fi		
		B.	instant messaging		
		C.	extranet		
		D.	Ethernet		
Answ	er: D		Reference: The Network Interface Difficu	ılty: Moderate	

to

20.	Remote	access means that a:	
	A	computer is linked directly to a network.	
	В	transaction is added to a batch that will be processed or	a remote computer.
	C.	user is connecting to a network through a phone line, to	elevision cable, or wireless link.
	D	LAN is set up in an office in a remote location.	
Ansv	ver: C	Reference: The Network Interface	<b>Difficulty:</b> Easy
21.	A port i	s a:	
	A	socket that enables information to move in and out.	
	В	hardware device that allows connection to the Internet.	
	C.	peripheral device attached to a computer.	
	D	virtual memory location.	
Ansv	ver: A	Reference: The Network Interface	<b>Difficulty:</b> Easy
22.		r PC will likely have an Ethernet on the nhernet network.	nain circuit board so it can directly connect
	A	router	
	В	network interface card	
	C.	port	
	D	jack	
Ansv	ver: C	Reference: The Network Interface	Difficulty: Moderate
23.	A(n)	port is faster and more flexible than a traditi	onal serial or parallel port.
	A	peripheral	
	В	USB	
	C.	monitor	
	D	server	
Ansv	ver: B	Reference: The Network Interface	<b>Difficulty:</b> Moderate

24.	NIC sta	nds for:	
	A	network internal card.	
	В	newer industrial computer.	
	C	networking Internet connection.	
	D	network interface card.	
Answ	er: D	Reference: The Network Interface	Difficulty: Moderate
25.	A(n)	adds a special serial port to a computer so it can be di	rectly connected to a network
	A	GPS	
	В	NIC	
	C	modem	
	D	hub	
Answ	er: B	Reference: The Network Interface	<b>Difficulty:</b> Easy
26.	The NI	C controls the flow of data between the computer's RAM and the:	
	A	network cable.	
	В	Internet.	
	C	hard drive.	
	D	CD drive.	
Answ	er: A	Reference: The Network Interface	<b>Difficulty:</b> Easy
27.	A(n)	signal is represented by a continuous wave.	
	A	analog	
	В	digital	
	C	bandwidth	
	D	baud	
Answ	er: A	Reference: Communication á la Modem	Difficulty: Moderate

28.	A(n)	converts a message from digital to	analog or from analog to digital.
	A	. hub	
	В	. modem	
	C	. switch	
	D	. Ethernet	
Ansv	wer: B	Reference: Communication á la Modem	Difficulty: Easy
29.	A voice drive.	e message must be converted to a(n)	signal so it can be stored on a computer's hard
	A	. Wi-Fi	
	В	. bitmapped	
	С	. digital	
	D	. analog	
Ansv	wer: C	Reference: Communication á la Modem	<b>Difficulty:</b> Moderate
30.		is defined as millions of bits.	
	A	. Megabytes	
	В	. Megabits	
	C	. Kilobits	
	D	. Kilobytes	
Ansv	wer: B	Reference: Broadband Connections	<b>Difficulty:</b> Moderate
31.		rm,, refers to the amount of n in a given amount of time.	information transmitted through a communication
	A	. dpi	
	В	. bit depth	
	C	. bandwidth	
	D	. broadband	
Ansv	wer: C	Reference: Broadband Connections	Difficulty: Moderate

32. A Broadl			oand connection could be any of the following EXCEPT:			
		A.	cable modem.			
		B.	DSL.			
		C.	wireless connection.			
		D.	standard phone modem.			
Answ	ver: D		Reference: Broadband Connections	<b>Difficulty:</b> Easy		
33.	A(n)		cable uses light waves to transmit multimedia and voi	ice data.		
		A.	copper			
		B.	twisted-pair			
		C.	fiber-optic			
		D.	coaxial			
Answ	ver: C		Reference: Fiber-Optic Connections	Difficulty: Easy		
34.	A(n)		uses radio waves to carry information at high speed.			
		A.	cable modem			
		B.	fiber-optic cable			
		C.	wireless connection			
		D.	phone cable			
Answ	ver: C		Reference: Wireless Network Technology	<b>Difficulty:</b> Moderate		
35.	A per	son	al area network is possible because of the wireless technology known	own as:		
		A.	USB.			
		B.	FireWire.			
		C.	Bluetooth.			
		D.	IEEE.			
Answ	ver: C		Reference: Wireless Network Technology	<b>Difficulty:</b> Moderate		

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36.		is new technology currently ava	uilable in Japan, much of Europe, and some major US cities
	It uses h	igh-bandwidth connections to commun	icate multimedia over wireless networks.
	A.	4GL	
	В.	PDA	
	C.	3G	
	D.	Wi-Fi	
Ansv	wer: C	Reference: Wireless Network Techn	ology <b>Difficulty:</b> Easy
37.	The rule	es for how data is exchanged between n	etwork nodes is known as a(n):
	A.	protocol.	
	B.	algorithm.	
	C.	procedure.	
	D.	code of ethics.	
Ansv	wer: A	Reference: Communication Software	Difficulty: Moderate
38.	A		computer that shares data and other resources with client
	A.	server	
	В.	super computer	
	C.	client	
	D.	PDA	
Ansv	wer: A	Reference: Communication Software	Difficulty: Moderate
39.	Aserver.	is a configuration that allows	every computer on the network to act as both a client and a
	A.	client/server model	
	B.	host system	
	C.	server network	
	D.	peer-to-peer network	
Ansv	wer: D	Reference: Communication Software	<b>Difficulty:</b> Easy

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40.		software enables a computer to function as a sin	mple input/output device for sending
	message	s to a host computer.	
	A.	Multimedia	
	B.	Compression	
	C.	Data translation	
	D.	Terminal emulation	
Ansv	wer: D	Reference: Communication Software	Difficulty: Easy
41.	The	stores data and software that can to be shared by	several users.
	A.	file server	
	В.	mainframe	
	C.	print server	
	D.	client	
Ansv	wer: A	Reference: The Network Advantage	Difficulty: Moderate
42.	Using a	PC to copy software or data from a server, it is known as:	
	A.	uploading.	
	B.	terminal emulating.	
	C.	downloading.	
	D.	server sharing.	
Ansv	wer: C	Reference: The Network Advantage	Difficulty: Moderate
43.	When a	business can legally copy software to all of the computlicense:	ers they own, the company has a(n)
	A.	site	
	В.	upload	
	C.	file server	
	D.	groupware	
Ansv	wer: A	Reference: The Network Advantage	Difficulty: Moderate

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44.	A(n)	is code embedded as a one-pi	xel graphics file in a Web page or email message.
	A.	Web dot	
	B.	Web bug	
	C.	cookie	
	D.	virus	
Ansv	ver: B	Reference: Interpersonal Computing	Difficulty: Moderate
45.		eb-based email systems use mail server.	_ to retrieve mail and store the messages in a folder on a
	A.	Listserv	
	В.	POP	
	C.	groupware	
	D.	P2P	
Ansv	ver: B	Reference: The Many Faces of Email	Difficulty: Moderate
46.		is an invisible piece of code cord other information about the user's con	that notifies the sender that an email was opened and may nputer or email software.
	A.	applet	
	B.	pop-up	
	C.	Web bug	
	D.	phish	
Ansv	ver: C	Reference: The Many Faces of Email	Difficulty: Moderate
47.	A world	wide public newsgroup available on the In	nternet is:
	A.	TCP/IP	
	В.	USENET	
	C.	Listserv	
	D.	NIC	
Ansv	ver: B	Reference: Newsgroups	Difficulty: Moderate

40.	Asynchro	onous communication is when the sender and recipient:	
	A.	must be online at the same time.	
	B.	do not use the same operating system.	
	C.	do not have to be online at the same time.	
	D.	use different software but are able to communicate through the I	nternet.
	er: C	<b>Reference:</b> Instant Messaging and Teleconferencing: Real-Timederate	e Communication
49.	IM stand	s for:	
	A.	internal messaging.	
	B.	instant messaging.	
	C.	international market.	
	D.	instantaneous messages.	
	er: B culty: Eas	<b>Reference:</b> Instant Messaging and Teleconferencing: Real-Time	e Communication
50.	Graphica	l bodies used to represent a person in a virtual meeting place are	known as:
	A.	agents.	
	B.	emulators.	
	C.	avatars.	
	D.	Web bugs.	
	er: C culty: Moo	<b>Reference:</b> Instant Messaging and Teleconferencing: Real-Timederate	e Communication
51.		software and hardware allows a PC to act like a speakerphore	ne.
	A.	Telephony	
	B.	Instant messaging	
	C.	Video conferencing	
	D.	Avatar	
Answ	er: A	Reference: Computer Telephony	Difficulty: Moderate

52.	2. MMORPGs are:				
	A. protocols for the internet.				
	B. software standards for wireless technology				
	C.	circuit boards for enhanced handling of multimedia			
	D.	online role-playing games involving hundreds of thousands of players			
Answ	er: D	Reference: Social Networking and Information Sharing Difficulty: Moderate			
53.	Unwante	d junk email is known as:			
	A.	IM.			
	B.	telephony.			
	C.	spam.			
	D.	avatar.			
Answ	er: C	Reference: Online Risks Difficulty: Easy			
54.		is designed to capture sensitive financial information from the person visiting a Web site.			
	A.	IM			
	B.	Phishing			
	C.	VoIP			
	D.	MMORPG			
Answ	er: B	Reference: Email Issues Difficulty: Moderate			

55.	Α		helps block unauthorized acc	ess to a computer.
		A.	bridge	
		B.	VPN	
		C.	WEP	
		D.	firewall	
Ansv	wer: D		Reference: Wireless Issues	Difficulty: Moderate
56.	The .		encryption scheme improve	es the security of wireless networks.
		A.	Ethernet	
		B.	phishing	
		C.	VPN	
		D.	WEP	
Ansv	wer: D		Reference: Wireless Issues	Difficulty: Moderate
57.			is a secure electronic "tunnel' pping.	through the Internet that prevents unauthorized access or
		A.	NOS	
		B.	VPN	
		C.	Bluetooth	
		D.	MMORPG	
Ansv	wer: B		Reference: Wireless Issues	Difficulty: Moderate

Fill i	n the Blank:		
58.	is 1	ong-distance electronic communications in a variety of form	s.
Ansv	wer: Telecommunica	ations Reference: Arthur C. Clark's Magical Prophecy	Difficulty: Moderate
59.	A computer	is a system where two or more computers are linker	d together.
Ansv	wer: network	Reference: Basic Network Anatomy	<b>Difficulty:</b> Easy
60.	The three essential	components of every computer system are hardware, software	are, and
Ansv	wer: people	Reference: Basic Network Anatomy	Difficulty: Moderate
61.	A(n)	_ network links two or more LANs within a city.	
Ansv	wer: metropolitan ar	ea Reference: Networks Near and Far	<b>Difficulty:</b> Moderate
62.	In a WAN, the col	lection of common pathways is called the network's	<del>.</del>
Ansv	wer: backbone	Reference: Networks Near and Far	<b>Difficulty:</b> Moderate
63.	A(n)	_ network is a group of computers connected over a long dis	stance.
Ansv	wer: wide area	Reference: Networks Near and Far	<b>Difficulty:</b> Easy
64.	A(n)	_ is a device or program used to push traffic through a series	s of networks.
Ansv	wer: router	Reference: Networks Near and Far	<b>Difficulty:</b> Moderate
65.	A(n)finds the correct de	network allows a message to jump from wireless devicestination.	e to wireless device until it
Ansv	wer: mesh	Reference: Networks Near and Far	Difficulty: Moderate
66.	The most common	cabling for a LAN is	
Ansv	wer: twisted pair	Reference: Networks Near and Far	<b>Difficulty:</b> Challenging
67.	A(n)	_ is a computer or shared peripheral attached to a network.	
Ansv	wer: node	Reference: Networks Near and Far	Difficulty: Moderate
68.	A(n)ports.	_ network connects computers using radio or infrared transi	mitters connected to network
Ansv	wer: wireless	Reference: Networks Near and Far	<b>Difficulty:</b> Moderate
69.	A(n)	_ can pinpoint any location in the world.	
	wer: GPS yright © 2008 Prentic	<b>Reference:</b> Specialized Networks ce-Hall. All rights reserved. 16	Difficulty: Moderate

70.	<b>10.</b> A(n) is a group of wires on a computer's circuit board used to carry digital signals.			
Ansv	wer: bus Ref	ference: The Network Interface	Difficulty: Moderate	
71.	A(n) is a sock	et that allows data to pass in and out.		
Ansv	wer: port	Reference: The Network Interface	Difficulty: Moderate	
72.	USB stands for			
Ansv	wer: Universal Serial Bus Ref	ference: The Network Interface	<b>Difficulty:</b> Moderate	
73.	A(n) card on connect to a network.	the main circuit board adds an additional por	rt to the computer so it can	
Ansv	wer: network interface card	Reference: The Network Interface	Difficulty: Moderate	
74.	Most new computers don't i board.	need a NIC because they have a(n)	port on the main circuit	
Ansv	wer: Ethernet	Reference: The Network Interface	<b>Difficulty:</b> Challenging	
75.	A continual wave of bits trans	smitted through a device is known as a(n)	signal.	
Ansv	wer: analog	Reference: Communication á la Modem	<b>Difficulty:</b> Moderate	
76.	A(n) is a hard	ware device that connects a computer to a telepho	one line.	
Ansv	wer: modem	Reference: Communication á la Modem	<b>Difficulty:</b> Moderate	
77.	Bps stands for			
Ansv	wer: bits per second	Reference: Communication á la Modem	<b>Difficulty:</b> Easy	
78.	is the quantity given amount of time.	of information that can be transmitted through a	communication medium in a	
Ansv	wer: bandwidth	Reference: Broadband Connections	<b>Difficulty:</b> Moderate	
79.	Bandwidth is measured in kile	obits or		
Ansv	wer: megabits	Reference: Broadband Connections	Difficulty: Moderate	
80.	cables are fast	er than DSL or cable modems.		
Ans	wer: Fiber-ontic	Reference: Fiber-Ontic Connections	Difficulty: Moderate	

81.		and handheld computers have ports short distances without the use of cables.	that can send and receive digita
Ansv	wer: infrared	Reference: Wireless Network Techn	ology <b>Difficulty:</b> Moderate
82.	A(n)	is a set of rules for efficiently transmitting data fro	m one network node to another.
Ansv	wer: protocol	Reference: Communication Software	Difficulty: Moderate
83.	so	oftware sends requests from the user to the server.	
Ansv	wer: Client	Reference: Communication Software	Difficulty: Moderate
84.	A(n)	accepts, prioritizes, and processes print jobs from 1	many computers.
Ansv	wer: print server	Reference: The Network Advantage	Difficulty: Moderate
85.	Copying software	e or data files from a client computer to a server is kno	wn as
Ansv	wer: uploading	Reference: The Network Advantage	Difficulty: Easy
86.	Software designe known as	ed to allow several networked users to work on the	same document at the same time is
Ansv	wer: groupware	Reference: The Network Advantage	<b>Difficulty:</b> Moderate
87.	When a Microsof a(n)	ft Word document or picture file is included along wi	th an email message, it is known as
Ansv	wer: attachment	Reference: The Many Faces of Emai	Difficulty: Easy
88.	Most Web-based folder.	email systems use protocol to retriev	ve mail and store the messages in a
Ansv	wer: Post Office	Reference: The Many Faces of Email	Difficulty: Moderate
89.		is an invisible piece of code that silently notified also report other information from the user's computer	
Ansv	wer: Web bug	Reference: The Many Faces of Email	Difficulty: Moderate
90.	A(n)	list is used to send an email message to many peop	ole.
Ansv	wer: mailing	Reference: Mailing Lists	<b>Difficulty:</b> Easy
91.	A(n)	is an online public discussion on a particular subject	ct.
Ansv	wer: newsgroup	Reference: Newsgroups	<b>Difficulty:</b> Easy
92.	is	a network of newsgroups available worldwide through	h the Internet.
	wer: USENET yright © 2008 Prent	Reference: Newsgroups tice-Hall. All rights reserved. 18	Difficulty: Moderate

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93.	Mailing lists and newsg have to be logged on at t		communications so that the se	ender and recipient do not
	ver: asynchronous culty: Moderate	Reference: Instant	Messaging and Teleconferencing: R	eal-Time Communication
94.	When a participant in	a chat room repre	sents himself using a cartoon cha	arracter, he is using a(n)
	ver: avatar culty: Moderate	Reference: Instant	Messaging and Teleconferencing: R	eal-Time Communication
95.	When a company links a trend called	_	ith the telephone system, the compar	ny is embracing a growing
Ansv	ver: computer telephony	Reference: Compu	iter Telephony	<b>Difficulty:</b> Moderate
96.	With, ph	one calls are carried	over the Internet instead of using the	public phone network.
Ansv	ver: Internet telephony (V	oIP) <b>Reference:</b> Con	nputer Telephony	Difficulty: Moderate
97.	games li playing games in an onli		World of WarCraft support hundred	ds of thousands of people
Ansv	ver: MMORPG	Reference: Social	Networking and Information Sharing	g Difficulty: Challenging
98.	is an onlocontent.	ine encyclopedia tha	t lets anyone with an Internet conne	ction modify or add to its
Ansv	ver: Wikipedia	Reference: Social	Networking and Information Sharing	g <b>Difficulty:</b> Challenging
99.	is a colla	borative information	resource of photographs available or	1 the Web.
Ansv	ver: Flickr	Reference: Social	Networking and Information Sharing	g Difficulty: Challenging
100.	A(n) We the site.	eb site is designed to	collect confidential and sensitive in	formation from visitors to
Ansv	ver: phishing	Reference: Email	Issues	Difficulty: Moderate
101.	Unsolicited email is call	ed		
Ansv	ver: spam	Reference: Email	Issues	<b>Difficulty:</b> Easy
<b>102.</b> Publicly accessible wireless access points are known as				
Ansv	ver: hot spots	Reference: Wirele	ss Issues	Difficulty: Easy
103.	To enable customers to which is a wireless access		sing their laptop, a coffee shop may	provide a
	ver: hot spot right © 2008 Prentice-Ha	<b>Reference:</b> Wirele ll. All rights reserved		Difficulty: Moderate

#### Chapter 8: Networking and Digital Communication

104.	is	s an encryption scheme providing security for data	a transmission on a wireless network.
Answ	er: WEP	Reference: Wireless Issues	Difficulty: Moderate
105.	A(n)eavesdropping.	network provides a "tunnel" through the In	aternet preventing unauthorized access or
Answ	er: virtual private	Reference: Wireless Issues	Difficulty: Moderate

### **Matching:**

**106.** Match the following terms to their meanings:

I. modem A. continuous wave of bits

II. bandwidth B. device used to connect computer to phone line

III. blog C. secure network that uses encryption

IV. broadband D. transmission capacity measured in kilobits or megabits per second

V. analog signal E. personal Web page that can be used for a personal diary

VI. VPN F. fast Internet connection like DSL

VII. NIC G. installation adds port designed to connect directly to a network

**Answers:** B, D, E, F, A, C, G **Reference:** Multiple locations **Difficulty:** Moderate

**107.** Match the following [number] terms to their meanings:

I. port A. popular wireless LAN technology

II. TCP/IP B. online role playing games involving hundreds of thousands of participants

III. MMORPG C. socket used when information passed in and out of the system

IV. Wi-Fi D. web site that permits anyone to alter its content

V. wiki E. rules for data exchange over the Internet

**Answer:** C, E, B, A, D **Reference:** Multiple locations **Difficulty:** Moderate