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Chapter 2: Technology Infrastructure: The Internet and the World Wide Web

TRUE/FALSE

1.	structure that underli				ects them to each other form the basic technological merce.
	ANS: T	PTS:	1	REF:	55
2.	The USENET was the the Internet.	ne earlie	est of the netwo	rks that	eventually combined to become what we now call
	ANS: F	PTS:	1	REF:	56
3.	E-mail was born in 1 over the Defense De			wrote	a program that could send and receive messages
	ANS: T	PTS:	1	REF:	56
4.					l services, MCI Mail and CompuServe, to establish pose of exchanging e-mail transmissions with users
	ANS: T	PTS:	1	REF:	57
5.	A network of compu a local area network.		t are located clo	ose toge	ether—for example, in the same building—is called
	ANS: T	PTS:	1	REF:	58
6.	The Internet provides	s a high	degree of secu	rity in i	its basic structure.
	ANS: F	PTS:	1	REF:	60
7.					press carriers have been the main communications place many of them at a lower cost.
	ANS: T	PTS:	1	REF:	61
8.	An intranet extends b	beyond	the organizatio	n that c	reated it.
	ANS: F	PTS:	1	REF:	61
9.	The "virtual" part of connection, but the c				on seems to be a temporary, internal network ent.
	ANS: F	PTS:	1	REF:	61
10.	VPN software must l	be insta	lled on the com	puters	at both ends of the transmission.
	ANS: T	PTS:	1	REF:	61

11.	The technologies us boundaries.	ed (publ	ic networks, pr	rivate no	etworks, or VPNs) are independent of organizational
	ANS: T	PTS:	1	REF:	62
12.	IP addresses appear	as five 1	numbers separa	ited by j	periods.
	ANS: F	PTS:	1	REF:	63
13.	SMTP is a common	protoco	l used for send	ing and	retrieving e-mail.
	ANS: T	PTS:	1	REF:	65
14.	IMAP is a newer e-additional features.	nail pro	tocol that perfo	orms the	e same basic functions as POP, but includes
	ANS: T	PTS:	1	REF:	65
15.	The POP protocol p	rovides	support for MI	ME.	
	ANS: T	PTS:	1	REF:	65
16.	At a technological le		Web is nothing	g more	than software that runs on computers that are
	ANS: T	PTS:	1	REF:	66
17.	The set of rules for or Transfer Protocol (H		ng Web page fil	les over	the Internet is in a protocol called the Hypertext
	ANS: T	PTS:	1	REF:	66
18.	An HTML documer element will appear		ilar to a word-p	processi	ng document in that it specifies how a particular text
	ANS: F	PTS:	1	REF:	67
19.	Domain names are s	sets of w	ords that are as	ssigned	to specific IP addresses.
	ANS: T	PTS:	1	REF:	69
20.	The Internet Corpor domain names and o				d Nuances has the responsibility of managing address registrars.
	ANS: F	PTS:	1	REF:	69
21.	HTML is a meta lan usefulness of XML.		ecause users ca	an creat	e their own markup elements that extend the
	ANS: F	PTS:	1	REF:	71
22.	SGML offers a syste	em of m	arking up docu	ments t	hat is independent of any software application.
	ANS: T	PTS:	1	REF:	72

23.	The term cascading i on top of the other.	s used because design	ers can	apply many style sheets to the same Web page, one
	ANS: T	PTS: 1	REF:	78
24.	The higher the bandy	width, the faster data f	iles trav	el and the faster Web pages appear on your screen.
	ANS: T	PTS: 1	REF:	84
25.	Asymmetric connects	ions provide the same	bandwi	dth for each direction.
	ANS: F	PTS: 1	REF:	84
MUL	TIPLE CHOICE			
1.	The combination of t	elephone lines and the	e closed	switches that connect them to each other is called a
	a. LAN b. WAN		c. d.	circuit pathway
	ANS: C	PTS: 1	REF:	58
2.	On a packet-switched	d network, files and e-	mail me	essages are broken down into small pieces, called
	a. messages b. pieces		c. d.	circuits packets
	ANS: D	PTS: 1	REF:	59
3.	_			ernet, they must be translated into a standard format.
	a. Switches	n this translation funct	c.	Routers
	b. Bridges			Routing algorithms
	ANS: C	PTS: 1	REF:	59
4.	Routers and the teleca. backbone routers		connecti c.	ing them are collectively referred to as an asynchronous backbone
	b. Internet routers	,	d.	•
	ANS: D	PTS: 1	REF:	60
5.	• •	extend beyond the bou		of a particular organization.
	a. Internetb. extranet		c. d.	intranet ARPANET
	ANS: C	PTS: 1	REF:	61
6.	are protected from bea. VPN		les trave c.	ne on a highway (the Internet) in which passengers eling in the other lanes. extranet
	b. IP wrapper	DTIC 1		IAP
	ANS: A	PTS: 1	REF:	61

7.		vell as a		rk woul c.	as and their protocols to send data in a way that d, but at a lower cost. virtual private network private network
	ANS: C	PTS:	1	REF:	61
8.	A is a collectiona. routing algorithmb. backbone router		es for formattin	c.	ring, and error checking data sent across a network. protocol packet
	ANS: C	PTS:	1	REF:	62
9.	determine how receiving device india. Routers b. Bridges			ed the n	hat it has finished sending a message, and how the nessage. Protocols Adapters
	ANS: C	PTS:	1	REF:	62
10.	In networking applica. octet b. netbit	ations,	an 8-bit numbe	c.	en called a(n) piconet bit
	ANS: A	PTS:	1	REF:	63
11.	Network engineers h One of the most pop a. subnetting b. subletting			 c.	gap techniques to stretch the supply of IP addresses. sub-blocking piconetting
	ANS: A	PTS:	1	REF:	64
12.	A computer called a packets from those c a. routing algorithm b. network address	ompute n device	rs to the Interne	et. c.	esses into normal IP address when it forwards subnet translation device private network device
	ANS: B	PTS:	1	REF:	64
13.	The numbering a. hexadecimal b. decimal	g system	uses 16 charac	c.	binary ASCII
	ANS: A	PTS:	1	REF:	64
14.	IPv6 uses a num a. 32-bit b. 56-bit	ber for	addresses.		128-bit 256-bit
	ANS: C	PTS:	1	REF:	64
15.	The purpose of a(n) a. URL b. e-mail	is	to respond to r	c.	for Web pages from Web clients. Web server top-level domain

	ANS: C	PTS:	1	REF:	65
16.	specifies the fore-mail server and tra				escribes how mail is to be administered on the
	a. SMTP			c.	
	b. TCP/IP			d.	POP
	ANS: A	PTS:	1	REF:	65
17.	features, is known as		t perfo		sic functions as POP, but includes additional
	a. IMAPb. SMTP				POPI IPOP
	ANS: A	PTS:	1	REF:	65
18.	messages are still on		•	rver.	rs and individual e-mail messages while the
	a. POPb. SMTP			c. d.	IMAP MIME
	ANS: C	PTS:	1	REF:	65
19.	is a set of rules photos, or sound clip a. IMAP b. MIME		_	nched to e-mail n	~~
	ANS: B	PTS:	1	REF:	65
20.	TIDE	the prot	ocol n		nain name is called the URL
	a. URT b. URO			d.	
	ANS: C	PTS:	1	REF:	66
21.	HTML was develope	ed by _	•		
	a. ARPANET			c.	Ted Nelson
	b. NSF			d.	Tim Berners-Lee
	ANS: D	PTS:	1	REF:	67
22.		eb brov	vser th	at became widel	y available for personal computers.
	a. Mosaic				Internet Explorer
	b. Netscape			d.	CompuServe
	ANS: A	PTS:	1	REF:	67
23.	are sets of wor	ds that a	are assi	igned to specific	IP addresses.
	a. Domain names				Octets
	b. URLs			a.	Piconets
	ANS: A	PTS:	1	REF:	69
24.	The early versions o headings, title bar tit				create text-based electronic documents with lists.

	a. HTTP c. SGML b. HTML d. XML	
	ANS: B PTS: 1 REF: 72	
25.	In HTML, hyperlinks are created using the HTML tag. a. head	
	ANS: B PTS: 1 REF: 77	
COM	PLETION	
1.	A computer is any technology that allows people to connect compute each computer.	rs to
	ANS: network	
	PTS: 1 REF: 55	
2.	A network which uses a specific set of rules and connects networks all over the world to each called the	other, is
	ANS: Internet	
	PTS: 1 REF: 55	
3.	The part of the Internet known as the is a subset of the computers on Internet that are connected to one other in a specific way that makes them and their contents ea accessible to each other.	the sily
	ANS: World Wide Web WWW Web WWW (World Wide Web) World Wide Web (WWW)	
	PTS: 1 REF: 55	
4.	A(n) is an e-mail address that forwards any message it receives to any subscribed to the list.	y user
	ANS: mailing list	
	PTS: 1 REF: 56	
5.	In 1979, a group of students and programmers at Duke University and the University of North Carolina started, which allows anyone who connects to the network t and post articles on a variety of subjects.	o read
	ANS: Usenet User's News Network	

	PTS:	1	REF:	56
6.		t survives on t		net today, with more than 1000 different topic areas that are called
	ANS:	newsgroups		
	PTS:	1	REF:	56
7.	Intern	et		are computers that are directly connected to the Internet.
	ANS:	hosts		
	PTS:	1	REF:	57
8.	indire	ctly to smaller	pro	oviders sell Internet access rights directly to larger customers and and individuals through other companies, called ISPs.
	ANS:	Network acce	ess	
	PTS:	1	REF:	57
9.		ams apply their		g algorithms to information they have stored in routing tables or les.
	ANS:	configuration	l	
	PTS:	1	REF:	59
10.	The ro	outers connecte	ed to the	Internet backbone are sometimes called routers.
	ANS:	backbone		
	PTS:	1	REF:	60
11.		ble to the publ		_ is any computer network or telecommunications network that is
	ANS:	public networ	rk	
	PTS:	1	REF:	60
12.		zation.		_ is used when the internet extends beyond the boundaries of an
	ANS:	extranet		
	PTS:	1	REF:	61-62
13.	before	it is transmitt	ed over	_ Protocol controls the disassembly of a message or a file into packets the Internet, and it controls the reassembly of those packets into their each their destinations.

	ANS:	Transmission	Contro	I
	PTS:	1	REF:	62
14.	Thewith the	ne packet's orig	ination	Protocol specifies the addressing details for each packet, labeling each and destination addresses.
	ANS:	Internet		
	PTS:	1	REF:	62-63
15.	The se	t of rules for de	eliverin 	g Web page files over the Internet is in a protocol called the
	Hypert HTTP	ext Transfer P ext Transfer P (Hypertext Tra	rotocol	
	PTS:	1	REF:	66
16.		age (HTML).		_ server is a computer that stores files written in Hypertext Markup
	ANS:	hypertext		
	PTS:	1	REF:	67
17.	A(n) _			_ is a language that can be used to define other languages.
	ANS:	metalanguage		
	PTS:	1	REF:	71
18.	HTML	L, XML, and X	HTML	have descended from the original specification.
	SGML	rd Generalized (Standard Gen	neralize	up Language ed Markup Language) up Language (SGML)
	PTS:	1	REF:	71
19.	In HTI elemen		ements	that are related to each another are called
	ANS:	hypertext		
	PTS:	1	REF:	72
20.	A(n) _ reader	begins on the	first pag	hyperlink structure resembles conventional paper documents in that the ge and clicks a Next button to move to the next page in a serial fashion.

	ANS: linear
	PTS: 1 REF: 76
21.	let designers define formatting styles that can be applied to multiple Web
	pages.
	ANS: Cascading Style Sheets CSS
	CSS (Cascading Style Sheets) Cascading Style Sheets (CSS)
	PTS: 1 REF: 78
22.	An XML document is embedded within the document.
	ANS: HTML Hypertext Markup Language HTML (Hypertext Markup Language) Hypertext Markup Language (HTML)
	PTS: 1 REF: 78
23.	tags do not specify how text appears on a Web page; the tags convey the meaning (the semantics) of the information included within them.
	ANS: Extensible Markup Language XML XML (Extensible Markup Language) Extensible Markup Language (XML)
	PTS: 1 REF: 81
24.	is the amount of data that can travel through a communication medium pe unit of time.
	ANS: Bandwidth
	PTS: 1 REF: 84
25.	Upstream bandwidth is also called bandwidth.
	ANS: upload
	PTS: 1 REF: 84

1. As an individual packet travels from one network to another, the computers through which the packet travels determine the best route for getting the packet to its destination. Describe this process.

ANS:

The computers that decide how to best forward each packet are called routing computers, router computers, routers, gateway computers (because they act as the gateway from a LAN or WAN to the Internet) or border routers (because they are located at the border between the organization and the Internet.) The programs on the routers that determine the best path contain rules called routing algorithms. The programs apply these algorithms to information they have stored in routing tables or configuration tables. This information includes lists of connections that lead to particular groups of other routers, rules that specify which connection to use first, and rules for handling instances of heavy packet traffic and network congestion.

PTS: 1 REF: 59

2. What is the difference between a public network and a private network?

ANS:

A public network is any computer network or telecommunications network that is available to the public. The Internet is one example of a public network. A private network is a private, leased-line connection between two companies that physically connects their intranets to one another.

PTS: 1 REF: 60

3. Identify the four key rules for message handling.

ANS:

The open architecture philosophy developed for the evolving ARPANET, which later became the core of the Internet, included the use of a common protocol for all computers connected to the Internet and four key rules for message handling: 1) Independent networks should not require any internal changes to be connected to the network, 2) Packets that do not arrive at their destinations must be retransmitted from their source network, 3) Router computers act as receive-and-forward devices; they do not retain information about the packets that they handle, and 4) No global control exists over the network.

PTS: 1 REF: 62

4. What is the difference between TCP and IP?

ANS:

The TCP controls the disassembly of a message or a file into packets before it is transmitted over the Internet, and it controls the reassembly of those packets into their original formats when they reach their destinations. The IP specifies the addressing details for each packet, labeling each with the packet's origination and destination addresses.

PTS: 1 REF: 62-63

5. What are the advantages of Bluetooth technology?

ANS:

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One major advantage of Bluetooth technology is that it consumes very little power, which is an important consideration for many devices. Another advantage is that Bluetooth devices can discover each other and exchange information automatically. For example, a person using a laptop computer in a temporary office can print to a local Bluetooth-enabled printer without logging in to the network or installing software in either device. The printer and laptop computer electronically recognize each other as Bluetooth devices and immediately can begin exchanging information.

PTS: 1 REF: 88