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Chapter 2: E-Business Technology Basics

TRUE/FALSE

1.		ers and the Internet that connects them to each other form the basic technological es virtually all electronic commerce.
	ANS: T	PTS: 1
2.	The USENET was the Internet.	e earliest of the networks that eventually combined to become what we now call
	ANS: F	PTS: 1
3.	E-mail was born in 1 over the Defense De	972 when a researcher wrote a program that could send and receive messages partment network.
	ANS: T	PTS: 1
4.		mitted two commercial e-mail services, MCI Mail and CompuServe, to establish o the Internet for the sole purpose of exchanging e-mail transmissions with users
	ANS: T	PTS: 1
5.	At a technological le connected to the Inte	vel, the Web is nothing more than software that runs on computers that are rnet.
	ANS: T	PTS: 1
6.	An HTML documen element will appear.	is similar to a word-processing document in that it specifies how a particular text
	ANS: F	PTS: 1
7.	A network of compu	ters that are located close together—for example, in the same building—is called
	ANS: T	PTS: 1
8.	IP addresses appear a	s five numbers separated by periods.
	ANS: F	PTS: 1
9.	Domain names are se	ets of words that are assigned to specific IP addresses.
	ANS: T	PTS: 1
10.	The Internet Corpora	tion for Actualized Names and Nuances has the responsibility of managing

domain names and coordinating them with the IP address registrars.

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	ANS: F	PTS:	1
11.	The set of rules for de Transfer Protocol (HT		g Web page files over the Internet is in a protocol called the Hypertext
	ANS: T	PTS:	1
12.	The acronym SMTP i	s short	for Simple Markup Tracer Protocol.
	ANS: F	PTS:	1
13.	IMAP is a newer e-madditional features.	ail prot	socol that performs the same basic functions as POP, but includes
	ANS: T	PTS:	1
14.	The POP protocol pro	vides s	support for MIME.
	ANS: T	PTS:	1
15.	HTML is a meta language usefulness of XML.	uage b	ecause users can create their own markup elements that extend the
	ANS: F	PTS:	1
16.	SGML offers a system	n of ma	arking up documents that is independent of any software application.
	ANS: T	PTS:	1
17.	The term cascading is on top of the other.	s used b	because designers can apply many style sheets to the same Web page, one
	ANS: T	PTS:	1
18.			nail, and overnight express carriers have been the main communications years, extranets can replace many of them at a lower cost.
	ANS: T	PTS:	1
19.	An intranet extends be	eyond	the organization that created it.
	ANS: F	PTS:	1
20.	The Internet provides	a high	degree of security in its basic structure.
	ANS: F	PTS:	1
21.			neans that the connection seems to be a temporary, internal network on is actually permanent.

ANS: F

PTS: 1



22.	Establishing VPNs of	loes not require leased line	es.	
	ANS: T	PTS: 1		
23.	Although an extrane	t is a VPN, not every VPN	V is a	n extranet.
	ANS: F	PTS: 1		
24.	The higher the band	width, the faster data files	trav	el and the faster Web pages appear on your screen.
	ANS: T	PTS: 1		
25.	Asymmetric connect	tions provide the same bar	ndwi	dth for each direction.
	ANS: F	PTS: 1		
MUL	ГІРЬЕ СНОІСЕ			
1	HTML was developed	ed by		
1.	a. ARPANET	<u> </u>	c.	Ted Nelson
	b. NSF		d.	Tim Berners-Lee
	ANS: D	PTS: 1		
2.	was the first W	eb browser that became w	videl	y available for personal computers.
	a. Mosaic			Internet Explorer
	b. Netscape		d.	CompuServe
	ANS: A	PTS: 1		
3.	The combination of	telephone lines and the clo	osed	switches that connect them to each other is called a
	a. LAN		c.	circuit
	b. WAN		d.	pathway
	ANS: C	PTS: 1		
4.	On a packet-switche	d network, files and e-mai	il me	ssages are broken down into small pieces, called
	a. messages		c.	circuits
	b. pieces		d.	packets
	ANS: D	PTS: 1		
5.	-	a network to travel on the n this translation function		rnet, they must be translated into a standard format.
	a. Switches	ii and translation function		Routers
	b. Bridges		d.	Routing algorithms
	ANS: C	PTS: 1		
6	Routers and the telec	communications lines con	necti	ng them are collectively referred to as



	a. backbone routersb. Internet routers	c. d.	an asynchronous backbone the Internet backbone
	ANS: D PTS: 1		
7.	A is a collection of rules for formatting, ca. routing algorithm b. backbone router	c.	ring, and error checking data sent across a network. protocol packet
	ANS: C PTS: 1		
8.			hat it has finished sending a message, and how the
	receiving device indicates that it has received t		· ·
	a. Routers		Protocols
	b. Bridges	d.	Adapters
	ANS: C PTS: 1		
9.	In networking applications, an 8-bit number is		
	a. octet		piconet
	b. netbit	d.	bit
	ANS: A PTS: 1		
10.	One of the most popular techniques is		gap techniques to stretch the supply of IP addresses.
	a. subnetting		sub-blocking
	b. subletting	a.	piconetting
	ANS: A PTS: 1		
11.	A computer called a converts private IP a packets from those computers to the Internet.	ddre	esses into normal IP address when it forwards
	a. routing algorithm device	c.	subnet translation device
	b. network address translation device	d.	private network device
	ANS: B PTS: 1		
12	IPv6 uses a number for addresses.		
12.	a. 32-bit	c.	128-bit
	b. 56-bit		256-bit
	ANS: C PTS: 1		
12	The growth spins a system was 16 shows town	_	
13.	The numbering system uses 16 characters a. hexadecimal		hinory
	a. hexadecimal b. decimal		binary ASCII
		u.	ASCII
	ANS: A PTS: 1		
14.	are sets of words that are assigned to spec		
	a. Domain names		Octets
	b. URLs	d.	Piconets
	ANS: A PTS: 1		



15.		is to respond to requ		for Web pages from Web clients.
	a. URL b. e-mail			Web server
	b. e-man		a.	top-level domain
	ANS: C	PTS: 1		
16.	The combination of	the protocol name and the	don	nain name is called a
	a. URT			URL
	b. URO		d.	HTTP
	ANS: C	PTS: 1		
17.	specifies the fo	ormat of a mail message ar	nd de	escribes how mail is to be administered on the e-
		smitted on the Internet.		
	a. SMTP			MIME
	b. TCP/IP		d.	POP
	ANS: A	PTS: 1		
18.	is a set of rules	s for handling binary files,	sucl	n as word-processing documents, spreadsheets,
	_	ps, that are attached to e-m	nail n	•
	a. IMAP		c.	
	b. MIME		d.	POP
	ANS: B	PTS: 1		
19.	_	-	ne ba	sic functions as POP, but includes additional
	features, is known a	s		DODI
	a. IMAP			POPI
	b. SMTP		a.	IPOP
	ANS: A	PTS: 1		
20.		_	oldei	rs and individual e-mail messages while the
	messages are still or	the e-mail server.		7.4.7
	a. POP			IMAP
	b. SMTP		d.	MIME
	ANS: C	PTS: 1		
21.				create text-based electronic documents with
	-	tles, bullets, lines, and ord	ered	
	a. HTTP		c.	
	b. HTML		d.	XML
	ANS: B	PTS: 1		
22.		ks are created using the HT		
	a. head			title
	b. anchor		d.	ol
	ANS: B	PTS: 1		



23.	extend beyond the organization that created it.	y oı	ne that uses the TCP/IP protocol set, and does not
	a. Internetb. extranet		intranet ARPANET
	ANS: C PTS: 1		
24.	A(n) is like a separate, covered commuter are protected from being seen by the vehicles to a. VPN b. IP wrapper	ave c.	ne on a highway (the Internet) in which passengers eling in the other lanes. extranet IAP
	ANS: A PTS: 1		
25.	An extranet that uses public networks and their suppliers, and employees using a system called a. public network b. virtual public network	IP c.	otocols to send sensitive data to partners, customers tunneling or encapsulation is known as a virtual private network private network
	ANS: C PTS: 1		
COM	PLETION		
1.	A computer is any teceseach computer.	hno	ology that allows people to connect computers to
	ANS: network		
	PTS: 1		
2.	A network which uses a specific set of rules and called the	d co	onnects networks all over the world to each other, is
	ANS: Internet		
	PTS: 1		
3.	The part of the Internet known as the	cifi	is a subset of the computers on the c way that makes them and their contents easily
	ANS: World Wide Web WWW		
	Web WWW (World Wide Web) World Wide Web (WWW)		
	PTS: 1		
4.	A(n) is an e-mail add subscribed to the list.	ress	that forwards any message it receives to any user



	ANS: mailing list
	PTS: 1
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 to read and post articles on a variety of subjects.
	ANS: Usenet User's News Network
	PTS: 1
6.	Usenet survives on the Internet today, with more than 1000 different topic areas that are called
	ANS: newsgroups
	PTS: 1
7.	Internet are computers that are directly connected to the Internet.
	ANS: hosts
	PTS: 1
8.	providers sell Internet access rights directly to larger customers and indirectly to smaller firms and individuals through other companies, called ISPs.
	ANS: Network access
	PTS: 1
9.	A(n) server is a computer that stores files written in Hypertext Markup Language (HTML).
	ANS: hypertext
	PTS: 1
10.	Programs apply their routing algorithms to information they have stored in routing tables or tables.
	ANS: configuration
	PTS: 1
11.	The routers connected to the Internet backbone are sometimes called routers
	ANS: backbone



	PTS: 1
12.	The Protocol 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.
	ANS: Transmission Control
	PTS: 1
13.	The Protocol specifies the addressing details for each packet, labeling each with the packet's origination and destination addresses.
	ANS: Internet
	PTS: 1
14.	The set of rules for delivering Web pages over the Internet is in a protocol called the
	ANS: Hypertext Transfer Protocol Hypertext Transfer Protocol (HTTP) HTTP HTTP (Hypertext Transfer Protocol)
	PTS: 1
15.	is a metalanguage, which is a language that can be used to define other languages.
	ANS: SGML Standard Generalized Markup Language SGML (Standard Generalized Markup Language) Standard Generalized Markup Language (SGML)
	PTS: 1
16.	HTML, XML, and XHTML have descended from the original specification.
	ANS: SGML Standard Generalized Markup Language SGML (Standard Generalized Markup Language) Standard Generalized Markup Language (SGML)
	PTS: 1
17.	In HTML, the text elements that are related to each another are calledelements.



	ANS: hypertext
	PTS: 1
18.	A(n) hyperlink structure resembles conventional paper documents in that the reader begins on the first page and clicks a Next button to move to the next page in a serial fashion.
	ANS: linear
	PTS: 1
19.	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
20.	An XML document is embedded within the document.
	ANS: HTML Hypertext Markup Language HTML (Hypertext Markup Language) Hypertext Markup Language (HTML)
	PTS: 1
21.	tags do not specify how text appears on a Web page; the tags convey the meaning of the information included within them.
	ANS: Extensible Markup Language XML XML (Extensible Markup Language) Extensible Markup Language (XML)
	PTS: 1
22.	A(n) is an intranet that has been extended to include specific entities outside the boundaries of the organization.
	ANS: extranet
	PTS: 1



23.	as a(n)
	ANS: public network
	PTS: 1
24.	is the amount of data that can travel through a communication medium per unit of time.
	ANS: Bandwidth
	PTS: 1
25.	Upstream bandwidth is also called bandwidth.
	ANS: upload
	PTS· 1

ESSAY

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

2. 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

3. 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

4. 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

5. What are the advantages of Bluetooth technology?

ANS:

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