#### Test Bank for Data And Computer Communications 10th Edition by Stallings

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# CHAPTER 1: DATA COMMUNICATIONS, DATA NETWORKS, AND THE INTERNET

#### TRUE OR FALSE

- 1. T
- 2. F
- 3. T
- 4. T
- 5. T
- 6. F
- 7. T
- 8. T
- 9. F
- 10. T
- 11. F
- 12. T
- 13. F
- 14. F
- 15. T

#### **MULTIPLE CHOICE**

- 1. A
- 2. A
- 3. B
- 4. B
- 5. A
- 6. D
- 7. D
- 8. A
- 9. B
- 10. C
- 11. C
- 12. C
- 13. C
- 14. C
- 15. A

#### **SHORT ANSWER**

- 1. advances in technology
- 2. quality of service (QoS)
- 3. dense wavelength division
- 4. Convergence
- 5. extranet
- 6. transmission system utilization
- 7. error detection
- 8. Flow control
- 9. Compression
- 10. Wide Area Networks (WANs)
- 11. asynchronous transfer mode (ATM)
- 12. Wireless
- 13. ARPANET
- 14. internetworking
- 15. IP address

# CHAPTER 1: DATA COMMUNICATIONS, DATA NETWORKS, AND THE INTERNET

### TRUE OR FALSE

Т	F	1. Data communications deals with the transmission of signals in a reliable and efficient manner.
T	F	2. There are several fundamental differences between data processing and data communications.
T	F	3. There are no fundamental differences among data, voice, and video communications.
T	F	4. Effective and efficient data communication and networking facilities are vital to any enterprise.
T	F	5. Growth in services and growth in traffic capacity go hand in hand.
T	F	6. The increasing use of optical fiber, while greatly increasing capacity, has caused an increase in transmission prices as well.
T	F	7. Convergence refers to the merger of previously distinct telephony and information technologies and markets.
T	F	8. Changes in corporate data traffic patterns are driving the creation of high-speed WANs.
T	F	9. It is not necessary for a device to interface with the transmission system in order to communicate.
T	F	10. A modem is required to establish communication between a workstation and a server over a public telephone network.
T	F	11. Compression refers to the ability of a number of devices to share a transmission facility.
T	F	12. The basic building block of any communications facility is the transmission line.
Т	F	13. Developing switching systems with the capacity and rapid response to support the demand requirements with the increased use of fiber optic transmission is no longer a challenge.

Т		F 14.	14. Frame relay networks are commonly used for terminal-to- computer and computer-to-computer communications.			
Т		F 15.	The LAN is owned by the attached devices.	is owned by the same organization that owns the devices.		
M	ULT	TPLE CHO	ICE			
	1.			reach customers, suppliers, and partners formation from unwanted access.		
		A)	intranets and extranets	B) internets and extranets		
		C)	WANS and extranets	D) LANS and WANS		
	2.	DWDM en	ables capacities of	_ per second.		
		A)	terabits	B) picobits		
		C)	megabits	D) gigabits		
	3.	business o	context with them as they	e ability of employees to take their y move about, resulting in the ability to use and services from virtually anywhere.		
		A)	extranets	B) high-speed wireless access		
		C)	WANS	D) remote data access		
	4.	Anan enterp		echnology in an isolated facility internal to		
		A)	application network	B) intranet		
		C)	extranet	D) Internet portal		

 $5. \ \ A \ network \ in \ which \ small \ chunks \ of \ data \ are \ passed \ through \ the \ network$ 

	from node to node, and at each node the entire data chunk is received, stored briefly, and then transmitted to the next node, is a network.			
	A) packet switching	B) ATM		
	C) circuit switching	D) frame relay		
6.	A dominant architecture in the bus Web-focused intranet trend is	siness environment and the more recent computing.		
	A) Ethernet	B) GUI		
	C) token ring	D) client/server		
7.	-	electronics to digital technology is having discorporate intranets. Two examples of		
	A) server farms and DVDs			
	B) power workgroups and s	server farms		
	C) DVDs and CD-ROMs			
	D) digital versatile disks an	d digital still cameras		
8.	The key elements of a simple comm	nunications model are		
	A) source, transmission, destination			
	B) signal, transmission, reco	eiver		
	C) source, signal, destinatio	on		
	D) source, signal, receiver			
9.	Once an interface is established	is required for communication.		
	A) digital conversion	B) signal generation		
	C) synchronization	D) transmission		

10. In order for data processing devices to communicate certain conventions must be decided on. These requirements can collectively be termed		
A) synchronization	B) transmission systems	
C) exchange manage	ment D) flow control	
somewhere in the system, _	formation exchange is interrupted due to a fault techniques are needed to either resume ruption or to restore systems to their state priorange.	
A) flow control	B) routing control	
C) recovery	D) error correction	
	icated communications path is established gh the nodes of the network. The telephone on example.	
A) frame relay	B) ATM	
C) circuit switching	D) packet switching	
13. A is a physical facilit between connected network	ry that provides the infrastructure to move dataks.	
A) ATM	B) FDDI	
C) NAP	D) NSP	
14. Individual hosts and LANs a through a	are connected to an Internet Service Provider	
A) NAP	B) CPE	
C) POP	D) NSP	

15. The place where telephone companies terminate customer lines and locate

	switching equipment to interconnect those lines with other networks is the			
		A) CO	B) ISP	
		C) POP	D) NAP	
SH	IORT ANSWER			
1.		tions and netw	-	architecture and evolution of affic growth, development of
2.	-		ering levels of ay and minimum th	
3.	_		plexing enable cap nmunication and d	acities of many terabits per ata network links.
4.	and data network	ks inside a user		cture, integrating all the voice a single data network reless arena.
5.		iers, and mobile		he Internet to allow selected s the company's private data
6.			of transmission faci ting devices is refe	lities that are typically shared rred to as
7.				systems, therefore,ee errors cannot be tolerated.
8.	•			not overwhelm the processed and absorbed.
9.			ng the data down s n be used to meet a	o that a lower capacity, a given demand.
	public right-of-v and rely on circu	vays, consist of uits provided by	a number of intercy a common carrier	al area, require the crossing of onnected switching nodes, are  d to as cell relay, is a

culmination of developments in circuit switching and packet switching. It is so efficient that it can offer a constant data rate channel even though it is using a packet switching technique.	
12 networks provide advantages in the areas of mobility and ease of installation and configuration.	
13. The Internet evolved from the which was developed in 1969 by the Advanced Research Projects Agency of the U.S. Department of Defense.	
14. Communicating across arbitrary, multiple, packet-switched networks is	.•
15. Each IP packet includes an unique numeric address of the destination host. The address is referred to as an	is

# CHAPTER 2: PROTOCOL ARCHITECTURE, TCP/IP, AND INTERNET-BASED APPLICATIONS

#### TRUE OR FALSE

- 1. T
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- 3. T
- 4. F
- 5. T
- 6. F
- 7. F
- 8. T
- 9. F
- 10. T
- 11. T
- 12. F
- 13. F
- 14. T
- 15. T

### **MULTIPLE CHOICE**

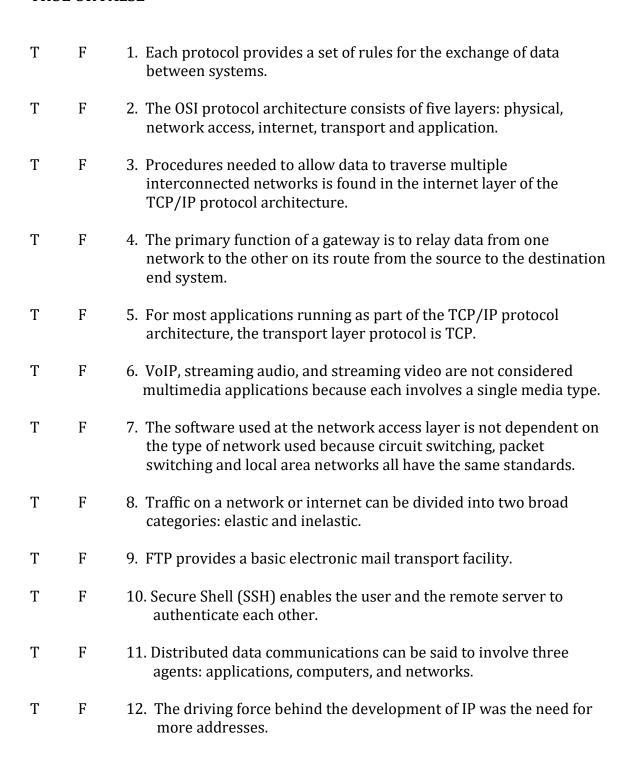
- 1. A
- 2. B
- 3. D
- 4. B
- 5. C
- 6. D
- 7. D
- 8. B
- 9. C
- 10. D
- 11. C
- 12. D
- 13. A
- 14. A
- 15. D

## **SHORT ANSWER**

- 1. protocol architecture
- 2. TCP/IP
- 3. physical
- 4. elastic
- 5. information
- 6. Secure Shell (SSH)
- 7. primitives
- 8. confirmed
- 9. Service Access Points (SAPs)
- 10. encapsulation
- 11. subnetworks
- 12. Checksum
- 13. Simple Network Management Protocol (SNMP)
- 14. User Datagram Protocol (UDP)
- 15.128

# CHAPTER 2: PROTOCOL ARCHITECTURE, TCP/IP, AND INTERNET-BASED APPLICATIONS

#### TRUE OR FALSE



Т	F	13. It is not necessary for each host on a subnet to have an unique global internet address.			
Т	F	14. TCP numbers the segments that it sends to a particular destination port sequentially.			
Т	F	15. In the application layer of TCP/IP, for each different type of application, a separate module is needed that is peculiar to that application.			
MUL	CIPLE C	CHOICE			
1.	stack		ged in a vertical stack. Each layer in the the functions required to communicate		
		A) protocol architecture	B) NSP		
		C) protocol data unit	D) frame relay		
2.	Facsir	mile, computer aided design, _ based applications.	publishing and medical imaging are all		
		A) text	B) image		
		C) video	D) audio		
3.		layer contains the logi cations.	c needed to support the various user		
		A) internet	B) physical		
		C) transport	D) application		
4.	The k	ey features of a protocol are:	syntax, semantics and		
		A) presentation	B) timing		
		C) network access	D) peer layering		

5.	The protocol architecture is a result of protocol research and development conducted on the experimental packet switched network ARPANET.		
	A) internet	B) physical	
	C) host-to-host	D) network access	
6.	The layer is concerned with system and the network to which it	n the exchange of data between an end t is attached.	
	A) internet	B) physical	
	C) host-to-host	D) network access	
7.	An example of traffic is rea	l time traffic such as voice and video.	
	A) delay variation	B) elastic	
	C) multimedia information	D) inelastic	
8.	Human-computer interaction invo	lving text, graphics, voice and video is	
	A) elastic traffic	B) multimedia	
	C) information delivery	D) media	
9.	has been invoked by the peer serv	provider to either indicate that a procedure lice user on the connection and to provide by the service user of a provider initiated	
	A) request	B) confirm	
	C) indication	D) response	
10	. Information that can be entered vi printable is	a a keyboard and is directly readable and	
	A) audio	B) graphic	
	C) video	D) text	

11. The h	eader format for TCP	is a minimum	of octets.
	A) 16	B) 8	
	C) 20	D) 160	
12	_ provides a basic ele	ectronic mail tr	ansport facility.
	A) TELNET	B) SNMP	
	C) UDP	D) SMTP	
	onic mail, remote log		anagement and Web access are
	A) elastic	B) real	-time
	C) file transfer	D) tran	nsport
		er, application l	l into three relatively independent ayer, and layer.
	C) physical	D) processing	
audio		_	mes, infotainment, and interactive applications in the domain
	A) information man	agement	B) information publishing
	C) telecommunication	on	D) entertainment
IORT ANS	WER		
change of o	-		and software that supports the distributed applications such as

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Full Download: https://downloadlink.org/p/test-bank-for-data-and-computer-communications-10th-edition-by-stallings/ Data and Computer Communications, 10th Edition, by William Stallings 2. The most widely used protocol architecture is the \_\_\_\_\_ protocol suite, which consists of physical, network access, internet, transport, and application layers. 3. In the TCP/IP protocol architecture, the \_\_\_\_\_ layer is concerned with specifying the characteristics of the transmission medium, the nature of the signals and the data rate. 4. Traffic that can adjust to changes in delay and throughput across an internet and still meet the needs of its applications is traffic. 5. Databases, information kiosks, hypertexts, electronic books, and multimedia expert systems are examples of multimedia \_\_\_\_\_ systems. 6. \_\_\_\_\_ provides a secure remote logon capability which enables a user at a terminal or personal computer to logon to a remote computer function as if directly connected to that computer. 7. The services between adjacent layers in a protocol architecture are expressed in terms of \_\_\_\_\_ and parameters. 8. If the initiator receives confirmation that the requested service has had the desired effect at the other end, it is referred to as a service. 9. Each application on a computer has an address that is unique within that computer known as \_\_\_\_\_ or ports that allow the transport layer to support multiple applications at each computer. 10. The addiction of control information to data is referred to as \_\_\_\_\_. 11. In the TCP/IP architecture constituent networks are referred to as . . 12. \_\_\_\_\_ is when the sending TCP includes a code that is a function of the contents of the remainder of the segment. The receiving TCP performs the same calculation and compares the result with the incoming code. A discrepancy results if there has been some error in transmission. 13. The standard network management protocol for TCP/IP networks is . . . 14. The two commonly used transport level protocols used as part of the TCP/IP protocol suite are TCP and \_\_\_\_\_.

15. IPv6 includes bit source and destination address fields.