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## /test-bank-data-and-computer-communications-8e-stallings Data and Computer Communications, Eighth Edition Test Bank Chapter 1

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## Chapter 1 - Data Communications, Data Networks, and the Internet

TRUE/FALSE QUESTIONS
1) Data communications deals with the transmission of signals in a reliable and efficient manner.
1)
Answer
True
False
2) There are several fundamental differences between data processing and data communications.
2)
Answer
True
False
3) There are no fundamental differences among data, voice, and video communications.
3)
Answer
True
False
4) Effective and efficient data communication and networking facilities are vital to any enterprise.
4)
 Answer

True
False
5) Growth in services and growth in traffic capacity go hand in hand.
5)
Answer
Γrue
False
6) The increasing use of optical fiber, while greatly increasing capacity, has caused an increase in transmission prices as well
5)
Answer Frue
False
7) Voice oriented telecommunications networks and data networks are more "intelligent" than ever.
7)
Answer
True
False
8) Changes in corporate data traffic patterns are driving the creation of high-speed WANs.
3)
Answer

True

False	
It is not n	9) necessary for a device to interface with the transmission system in order to communicate.
9)	
True	Answer
0	
False	
A moden	10) n is required to establish communication between a workstation and a server over a public telephone network.
10)	
0	Answer
True	
False	
Compres	11) sion refers to the ability of a number of devices to share a transmission facility.
11)	
True	Answer
0	
False	
The basic	12) building block of any communications facility is the transmission line.
12)	
0	Answer

True

False	
_	13) ing switching systems with the capacity and rapid response to support the demand requirements with the
increase	d use of fiber optic transmission is no longer a challenge.
13)	
Т	Answer
True	
0	
False	
	14)
Frame re	elay networks are commonly used for terminal-to-computer and computer-to-computer communications.
14)	
	- Answer
True	THOWE
0	
False	
	15)
The LAN	I is owned by the same organization that owns the attached devices.
15)	
0	Answer
True	
False	
MULTII	PLE CHOICE QUESTIONS 1)
	ses have formed to reach customers, suppliers, and partners while isolating their proprietary tion from unwanted access.
1)	
internete	A) s and extranets
muemets	B)

intranets and extranets	
LANS and WANS	C)
IMANIC and autropate	D)
WANS and extranets Answer	
В	
2) DWDM enables capaciti	ies of per second.
2)	
	A)
megabits	B)
gigabits	C)
terabits	D)
picobits Answer	
С	
	enhances the ability of employees to take their business context with them as they move about, o use enterprise information resources and services from virtually anywhere.
3)	
	A)
high-speed wireless acce	ess B)
extranets	
WANS	C)
remote data access	D)
Answer A	
4)	
-	ernet and Web technology in an isolated facility internal to an enterprise.
4)	
	A)
extranet	B)
intranet	

	C)
application network	D)
Internet portal	D)
Answer	
В	
5)	
	Il chunks of data are passed through the network from node to node, and at each node the entire fored briefly, and then transmitted to the next node, is a network.
5)	
ainavit avritahina	A)
circuit switching	B)
ATM	
packet switching	C)
packet switching	D)
frame relay	
Answer C	
6) A dominant architecture computing.	in the business environment and the more recent Web-focused intranet trend is
computing.	
6)	
	A)
client/server	B)
token ring	
	C)
GUI	D)
Ethernet	-,
Answer A	
А	
	consumer electronics to digital technology is having an impact on both the Internet and examples of this trend are
7)	
	A)
power workgroups and s	·
	B)

DVDs and CD-ROMs	
	C)
server farms and DVDs	
	D)
digital versatile disks and	digital still cameras
Answer	
D	
8)	
The key elements of a sim	aple communications model are
8)	
	A)
source, signal, destination	
	B)
source, signal, receiver	
	C)
source, transmission, des	
	D)
signal, transmission, rece	iver
Answer	
С	
0)	
9)	
Once an interface is estab	lished is required for communication.
0)	
9)	
	A)
transmission	A)
ti arisiriissiori	R)
signal generation	B)
signal generation	C)
synchronization	<b>C</b> )
Synchronization	D)
digital conversion	
Answer	
В	
D	
10)	
•	ng devices to communicate certain conventions must be decided on. These requirements can
collectively be termed	
	<del></del>
10)	
,	
	A)
exchange management	, 
0 0	B)
synchronization	

	C)
transmission systems	D)
flow control Answer	
A	
	n information exchange is interrupted due to a fault somewhere in the system, to either resume activity at the point of interruption or to restore systems to their state prior to the age.
11)	
routing control	A)
Touting control	B)
error correction	C)
flow control	
recovery	D)
Answer D	
	k, a dedicated communications path is established between two stations through the nodes of the ne network is the most common example.
	A)
packet switching	B)
frame relay	
circuit switching	C)
	D)
ATM Answer	
C	
13) A is a physi	ical facility that provides the infrastructure to move data between connected networks.
13)	
NAP	A)
1 1/2 11	B)

ATM		
FDDI		C)
NSP		D)
	Answer	
A		
Individu	14) al hosts and L <i>A</i>	ANs are connected to an Internet Service Provider through a
14)		· · · · · · · · · · · · · · · · · · ·
14)		
	-	A)
CPE		B)
POP		
NSP		C)
NAP		D)
	Answer	
В		
The plac	15) e where telepho	one companies terminate customer lines and locate switching equipment to interconnect those
		ks is the
15)		
	_	
NAP		A)
		B)
POP		C)
CO		D)
ISP	A	
С	Answer	
FILL IN	THE BLANK (	QUESTIONS
Three di	1) fferent forces ha	ave consistently driven the architecture and evolution of data communications and networking
		, development of new services, and
1)		
- J	Answer	
auvances	s in technology	

2)
Today's networks can offer differing levels of, which include specifications for maximum delay and minimum throughput.
2)
Answer
quality of service (QoS)
3)
Recent offerings of multiplexing enable capacities of many terabits per second for long-distance
telecommunication and data network links.
3)
Answer
dense wavelength division
4)
A variety of customizable services in the areas of network management and are provided by today's networks.
4)
Answer
security
5)
An extends a company's intranet out onto the Internet to allow selected customers, suppliers, and mobile
workers to access the company's private data and applications.
5)
Answer
extranet
6)
The need to make efficient use of transmission facilities that are typically shared among a number of communicating
devices is referred to as
6)
Answer
transmission system utilization
7)
There is a potential for error in all communication systems, therefore, and correction are required in
circumstances where errors cannot be tolerated.

7)
Answer error detection
8) is required to assure that the source does not overwhelm the destination by sending data faster than they can be processed and absorbed.
8)
Answer
Flow control
9) is the process of squeezing the data down so that a lower capacity, cheaper transmission facility can be used to meet a given demand.
9)
Answer
Compression
10) Networks that generally cover a large geographical area, require the crossing of public right-of-ways, consist of a number of interconnected switching nodes, and rely on circuits provided by a common carrier are
10)
Answer Wide Area Networks (WANs)
Using fixed length packets and sometimes referred 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.
11)
Answer Asynchronous transfer mode (ATM)
12)
networks provide advantages in the areas of mobility and ease of installation and configuration.

Answer Wireless	
13)	
•	which was developed in 1969 by the Advanced Research Projects Agency of the
13)	
Answer ARPANET	
14) Communicating across arbitrary, multiple,	packet-switched networks is
14)	
Answer internetworking	
15) Each IP packet includes an unique numeric	address of the destination host. This address is referred to an an
15)	
Answer IP address	
1 TRUE	)
2) FALSE 3)	
TRUE 4)	
TRUE 5)	
TRUE  6)	
FALSE 7) TRUE	
8) TRUE	
9) FALSE	
10) TRUE	

```
11)
FALSE
     12)
TRUE
     13)
FALSE
     14)
FALSE
     15)
TRUE
      1)
В
      2)
C
      3)
A
      4)
В
      5)
C
      6)
A
      7)
D
      8)
C
      9)
В
     10)
A
     11)
D
     12)
C
     13)
A
     14)
В
     15)
C
      1)
advances in technology
      2)
quality of service (QoS)
dense wavelength division
      4)
security
      5)
extranet
transmission system utilization
```

7) error detection

8)

Flow control

9)

Compression

10)

Wide Area Networks (WANs)

11)

Asynchronous transfer mode (ATM)

Wireless

13)

ARPANET

14)

internetworking

15)

IP address