https://selldocx.com/products/test-bank-guide-to-networking-essentials-8e-tomsho

Name	Class	Dat
		61

Ch 01: Introduction to Computer Networks

True / False

1. A network that connects LANs in different countries is most likely a WAN.

True a. False b.

ANSWER: True **POINTS**:

REFERENCES: LANs, Internetworks, WANs, and MANs

True / False **OUESTION TYPE:**

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

2. In order to find out your MAC address, you should open a command prompt and type ipconfig /all.

True a.

False b.

True ANSWER: **POINTS**: 1

REFERENCES: How Two Computers Communicate on a LAN: Some Details

OUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

3. What makes a computer a "server" is the fact that it has a server operating system installed on it.

True False b.

ANSWER: True 1 **POINTS**:

REFERENCES: Clients and Servers

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

4. Each component of a computer is designed to perform only one specific task-either input, processing, or output.

> True a.

False b.

ANSWER: False **POINTS**: 1

Name	Class	Dat
	•	۵.

REFERENCES: Basic Functions of a Computer

True / False **OUESTION TYPE:**

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

5. An extranet is a private network, such as a school or company network, in which the devices and servers are available only to users connected to the internal network.

a.

False h.

ANSWER: False **POINTS**:

Internet, Intranet, and Extranet **REFERENCES**:

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

Multiple Choice

6. The XYZ company has two offices, one in Chicago, and a brand new office in Pittsburgh. To connect the two offices, they will need a dedicated line, probably leased from the phone company. What type of network will they be implementing to connect their two offices?

> LAN a.

b. WAN

PAN c. d. SAN

b

ANSWER: **POINTS**:

REFERENCES: LANs, Internetworks, WANs, and MANs

Multiple Choice **OUESTION TYPE:**

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

7. Air waves are an example of what type of network component?

network interface card a.

network medium b.

interconnecting device c.

d. network protocol

ANSWER: h

Name	Class	Dat
		0.1

POINTS:

REFERENCES: Network Components
QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 7/19/2019 2:32 PM

 DATE MODIFIED:
 7/19/2019 2:32 PM

- 8. Windows 10 is an example of which of the following?
 - a. network protocol
 - b. client operating system
 - c. server software
 - d. server operating system

ANSWER: b
POINTS: 1

REFERENCES: Clients and Servers
QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 7/19/2019 2:32 PM

 DATE MODIFIED:
 7/19/2019 2:32 PM

- 9. What is one of the disadvantages of a peer-to-peer network compared to a server-based network?
 - a. more difficult to setup and install
 - b. more expensive
 - c. higher administration costs
 - d. limited security

ANSWER: d POINTS: 1

REFERENCES: Peer-to-Peer/Workgroup Model

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 10. What command would you issue from a command prompt to see a listing of the computers in your workgroup?
 - a. arp -a
 - b. net view
 - c. ipconfig /all
 - d. ping

ANSWER: b
POINTS: 1

Name :	Class :	Dat e:	
Ch 01: Introduction to Con	iputer Networks		
REFERENCES:	Network Models		

REFERENCES:	Network Models
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 11. What is one of the disadvantages of a server-based network compared to a peer-to-peer network?
 - a. additional costs
 - b. decentralized data access
 - c. difficult to expand
 - d. less secure

ANSWER: a POINTS: 1

REFERENCES: Network Models
QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 12. Which component manages the details of communicating with the NIC hardware to send and receive data to and from network media?
 - a. client
 - b. server software
 - c. network protocold. device driver

ANSWER: d
POINTS: 1

REFERENCES: Network Components
QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 7/19/2019 2:32 PM

 DATE MODIFIED:
 7/19/2019 2:32 PM

- 13. When data is being prepared for transmission onto the network, it is broken into small pieces and a header and trailer are added to each piece to help identify it. What is this process called?
 - a. multitasking
 - b. verification
 - c. encapsulation
 - d. application

ANSWER: c
POINTS: 1

Name	Class	Dat
		0.

REFERENCES: Packets and Frames
OUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 14. Every NIC has a unique address that consists of a 12-digit hexadecimal value. What is this address called?
 - a. IP address
 - b. subnet mask
 - c. MAC address
 - d. default gateway

ANSWER: c
POINTS: 1

REFERENCES: How Two Computers Communicate on a LAN: Some Details

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 15. Using the physical mail analogy, what part of an address on an envelope is most like the IP address?
 - a. MAC address
 - b. street address
 - c. recipient name
 - d. zip code

ANSWER: d
POINTS: 1

REFERENCES: How Two Computers Communicate on a LAN: Some Details

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 16. You are building a gaming computer and you want to install a dedicated graphics card that has a fast GPU and 4GB of memory on board. You need to make sure that you have the right connector available on your motherboard. What type of connector would be appropriate?
 - a. PCI
 - b. SATA
 - c. PCI Express
 - d. IDE

ANSWER: c
POINTS: 1

Name	Class	Dat
		۵.

REFERENCES: Personal Computer Hardware

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 17. You want a fast CPU for the new computer you are building and your motherboard only has one CPU socket. To increase the processing power, you need a CPU that provides more than one processor. What type of CPU are you looking for?
 - a. multicore
 - b. multiprocessing
 - c. multitasking
 - d. multilink

ANSWER: a POINTS: 1

REFERENCES: Basic Functions of a Computer

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 18. Which component, located on the motherboard, carries out all the instructions provided by computer programs?
 - a. hard drive
 - b. RAM
 - c. NIC
 - d. CPU

ANSWER: d
POINTS: 1

REFERENCES: Basic Functions of a Computer

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 19. You are the network administrator for a company and you want to separate the traffic from the accounting department from the rest of the network. However, the accounting department still needs to have access to other network resources. What type of network do you need to implement?
 - a. WPAN
 - b. internetwork
 - c. WAN

Name	Class	Dat
i		۵.
		С.

d. wireless network

ANSWER: E

REFERENCES: LANs, Internetworks, WANs, and MANs

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 20. Which part of the network communication process is responsible for sending and receiving data to and from the network media?
 - a. network software
 - b. network protocol
 - c. user application
 - d. network interface

ANSWER: d
POINTS: 1

REFERENCES: Layers of the Network Communication Process

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 21. You're the network administrator for a company located in Arizona that has just opened an office in Texas. You need to make sure that the two locations can communicate. What type of network are you implementing?
 - a. MAN
 - b. WAN
 - c. internetwork
 - d. extended LAN

ANSWER: b
POINTS: 1

REFERENCES: LANs, Internetworks, WANs, and MANs

OUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

- 22. You have just started a new business. You need to have three to four workstations available for your employees who simply need to share some files and a printer, but you don't have a large budget. Security is not a major concern, but costs are. Which network model would be the most appropriate for your situation?
 - a. internetwork

Name Class Dat : e:

Ch 01: Introduction to Computer Networks

b. domain

c. peer-to-peer network

d. server-based network

ANSWER: c
POINTS: 1

REFERENCES: Network Models
QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

23. Which unit of data stores a single value that can be a 0 or a 1?

a. byteb. bitc. nibbled. worde. bps

ANSWER: b
POINTS: 1

REFERENCES:Storage ComponentsQUESTION TYPE:Multiple Choice

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 2:32 PM

Multiple Response

24. Which of the following are examples of output devices? (Choose all that apply.)

a. monitorb. printerc. keyboardd. speakerse. CPU

ANSWER: a, b, d
POINTS: 1

REFERENCES: Basic Functions of a Computer

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

DATE CREATED: 7/19/2019 2:32 PM *DATE MODIFIED:* 7/19/2019 3:16 PM

Name	Class	Dat
:	:	e:
· · · · · · · · · · · · · · · · · · ·		•

25. Which of the following are examples of input devices? (Choose all that apply.)

mouse b. monitor keyboard c. d. scanner printer

ANSWER: a, c, d **POINTS:** 1

e.

Basic Functions of a Computer **REFERENCES**:

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

7/19/2019 2:32 PM DATE CREATED: DATE MODIFIED: 7/19/2019 3:16 PM

Completion

26. The three basic functions of a computer are input,	, and output
ANSWER:	processing

POINTS:

REFERENCES: Basic Functions of a Computer

OUESTION TYPE: Completion HAS VARIABLES: False STUDENT ENTRY MODE: Basic

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

is a packet that has been encapsulated with the source and destination MAC addresses in the header and an error-checking code in the trailer.

ANSWER: frame **POINTS**:

REFERENCES: **Packets and Frames**

QUESTION TYPE: Completion HAS VARIABLES: False STUDENT ENTRY MODE: **Basic**

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

is a chunk of data with the source and destination IP addresses added to it. 28. A

ANSWER: packet **POINTS**: 1

REFERENCES: Packets and Frames

OUESTION TYPE: Completion

:		::	e:
Ch 01:	: Introduction to Comp	puter Networks	
HAS VA	RIABLES:	False	
STUDE	NT ENTRY MODE:	Basic	
DATE C	'REATED:	7/19/2019	2:32 PM
DATE M	MODIFIED:	7/19/2019	2:32 PM
29. A _	is a collecti	on of users and computers whose accoun	nts are managed by Windows
	called domain controllers.	damata	
ANSWEI POINTS		domain 1	
REFERE		Server/Domain-Based	Model
	ON TYPE:	Completion	Woder
~	RIABLES:	False	
	NT ENTRY MODE:	Basic	
	REATED:	7/19/2019 2:32 PM	
	MODIFIED:	7/19/2019 2:32 PM	
	onto the network.	adds IP addresses and then MAC addresses encapsulat	_
REFERE		Packets an	nd Frames
QUESTI	ON TYPE:	Completio	on
HAS VA	RIABLES:	False	
STUDE	NT ENTRY MODE:	Basic	
DATE C	'REATED:	7/19/2019	2:32 PM
DATE M	MODIFIED:	7/19/2019	2:32 PM
Matchi	ng		
Match e	each item with a statement b	elow.	
a.	server		
b.	network protocols		
c.	domain		
d.	LAN		
e.	header		
f.	packet		
g.	WAN		
h.	nonvolatile memory		
i.	internetwork		
j.	core		
REFERE	ENCES:	Glossary	

Name	Class	Dat
		0.

QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED:	Matching False 7/19/2019 2:32 PM 7/19/2019 2:32 PM	
31. the term used to describe an OS designed mainly to san ANSWER: POINTS:	hare network resources	a 1
32. the software defining the rules and formats a comput network ANSWER: POINTS:	er must use when sending information acros	b 1
33. a collection of users and computers in a Windows se <i>ANSWER: POINTS:</i>	rver-based network	c 1
34. a network that connects devices in a small geographic ANSWER: POINTS:	c area	d 1
35. information added to the front end of a chunk of data ANSWER: POINTS:		e 1
36. a chunk of data with source and destination IP address ANSWER: POINTS:	sses in the header	f 1
37. network that is geographically dispersed <i>ANSWER: POINTS:</i>		g 1
38. the firmware of a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in this type of standard and a computer is stored in the computer is standard and a computer in the computer in the computer is standard and a computer in the compu	torage	h 1
39. a networked collection of LANs tied together by dev <i>ANSWER: POINTS:</i>	ices such as routers	i 1
40. an instance of a processor inside a single CPU chip <i>ANSWER</i> :		j

Name	Class	Dat
	•	₽.

POINTS: 1

Subjective Short Answer

41. Judy has just sent a ping message from her computer to John's computer using John's computer's IP address to verify that she has connectivity. List the steps that the message takes to get to the other computer and what layer of the network communication process each step relates to.

ANSWER:

First, Judy opens a command prompt and types the command ping 192.168.0.10. This is the user application layer. The next step is for Judy's computer to create the ping message to send to John's computer. This is the network software layer. The ping message then is encapsulated with the IP addresses of both Judy's computer and John's, which are the source and destination IP addresses. At this step, Judy's computer also finds out what the MAC address of John's computer is, which will be the destination MAC address. Both of these steps are part of the network protocol layer. Finally, Judy's computer adds her MAC address and John's MAC address (source and destination MAC addresses) to the package, converts the message into bits, and sends it to the network medium. This is the network interface step.

POINTS:

REFERENCES:

Layers of the Network Communication Process

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

42. What is the difference between short-term storage and long-term storage?

ANSWER:

Data that is stored in short-term storage is erased when the computer is powered off. When the computer is turned back on, there is no trace of any previous data. The computer transfers programs and files into this short-term storage to make it readily available for the CPU. Long-term storage retains its data even when no power is applied to the computer. Long-term storage is where programs

and files are stored.

POINTS:

REFERENCES: **Storage Components OUESTION TYPE:** Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

43. How do you access the BIOS setup utility?

ANSWER:

Turn your computer on and watch the first screen that appears carefully as it will have a message. This message will tell you what key to press to enter the BIOS. When you know what key to press, do so quickly. If you do not press the key in time, the computer will continue to boot. After it boots, shut

down the computer and try again.

Name	Class	Dat
		Φ'

POINTS: 1

REFERENCES: Computer Boot Procedure QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

44. What is the difference between a LAN and a WAN?

ANSWER: A LAN is a group of computers connected by a network device, such as a hub or switch, that is

located in a small area, such as an office building. LAN connections usually have high data transfer rates and use UTP cabling. A WAN is a network that covers a much larger area. It can be in the same state, or across several states, or across several countries. It usually connects several LANs together

using high-speed, public communication links that are typically very expensive.

POINTS: 1

REFERENCES: LANs, Internetworks, WANs, and MANs

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

45. What are the three basic tasks performed by a computer?

ANSWER: Input, processing, and output. First, it accepts input. Input can come from several different devices

like a mouse, a keyboard, or storage. Input usually is generated by a user's actions, but not always. Next, the CPU processes the input, which means that it examines the input and determines or

calculates the results. Finally, the CPU sends instructions to whatever device is appropriate to perform or display the output. Output devices include, but are not limited to, monitors, printers, and storage

devices.

POINTS:

REFERENCES: Basic Functions of a Computer

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

46. What is a peer-to-peer network, and what are it's advantages and disadvantages?

ANSWER: A peer-to-peer network is a collection of computers in which each computer can act as a client or a

server, or both, and each has equal authority. Advantages of a peer-to-peer network are that it is easy to install, is relatively inexpensive to implement, doesn't require extensive training or special staff,

Name	Class	Dat
		۵.

and the lose of a single machine will not cripple the network. Disadvantages include lack of security, difficult to locate resources, reduced performance when computer is acting as server, and limitation on the number of users.

POINTS:

REFERENCES: Network Models

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

47. What is a server-based network, and what are it's advantages and disadvantages?

ANSWER: A server-based network is a network that has certain computers that take on the role of servers, and all

the other computers act as clients. The advantages are centralized control over network resources, better security, easy expandability, and no limitations to the number of users. The disadvantages include higher costs for equipment and software, the need for administrative personnel to maintain network resources, and the fact that a single computer could cause the entire network to fail.

POINTS: 1

REFERENCES: Network Models

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

48. What is the difference between a client operating system and a server operating system?

ANSWER: A client operating system is designed mainly to run user applications like a word processor or

spreadsheet program and to access network resources like file servers or the Internet. A server operating system is designed to provide clients with access to network resources such as directory

services, shared files, and e-mail.

POINTS: 1

REFERENCES: Clients and Servers

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

49. Explain the boot procedure.

ANSWER: First, power is supplied to the motherboard. Second, the CPU starts. Third, the CPU gets the

configuration information from the BIOS and carries out the startup routines, which include

Name	Class	Dat	
	:	Δ.	
		С.	

performing the POST. The BIOS searches the boot devices for an OS. After an OS is found, it is loaded into RAM, and finally, the OS services are started.

POINTS: 1

REFERENCES: Computer Boot Procedure QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM

50. What is the difference between an intranet and an extranet?

ANSWER: An intranet is a private network, such as a school or company network, in which the devices and

servers are available only to users connected to the internal network. Many of the same protocols and technologies used on the Internet are used to access information on an intranet. An extranet sits somewhere between the Internet and an intranet. It allows limited and controlled access to internal network resources by outside users. It's used when two organizations need to share resources, so controls are put in place to allow these organizations to access resources without making resources

available to the wider Internet.

POINTS: 1

REFERENCES: Internet, Intranet, and Extranet

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 7/19/2019 2:32 PM DATE MODIFIED: 7/19/2019 2:32 PM