## https://selldocx.com/products/test-bank-business-data-networks-and-security-11e-panko

## **Business Data Networks and Security, 11e** (Panko) Chapter 1 Core Network Concepts and Terminology

1) Flooding a host with traffic so that it cannot serve its legitimate users is a attack.
A) hacking
B) virus
C) malware
D) DoS
Answer: D
Difficulty: Basic
Question: 1a
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology
2) The KrebsOnSecurity.com attack
A) was a denial of service attack.
B) used IoT devices to attack the site
C) both A and B
D) neither A nor B
Answer: C
Difficulty: Basic
Question: 1b
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology, Analytical Thinking
3) Internet communication that does not involve a human is referred to with the term
A) World Wide Web
B) impersonal
C) anonymous
D) IoT
Answer: D
Difficulty: Difficult
Question: 1c
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology, Analytical Thinking

4) If a host cannot reach a DNS server, it
A) cannot have a host name
B) will have to rely on host names
C) will need to use a DHCP server
D) is unlikely to be able to communicate with most server hosts
Answer: D
Difficulty: Difficult
Question: 1d
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology, Analytical Thinking
5) The Mirai bots in the KrebsOnSecurity.com attack were
A) client hosts
B) server hosts
C) IoT devices
D) all of the above
Answer: C
Difficulty: Basic
Question: 1e
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology
6) ISPs
A) carry traffic in the Internet
B) connect users to the Internet
C) both A and B
D) neither A nor B
Answer: C
Difficulty: Basic
Question: 3a
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology, Analytical Thinking

7) A packet sent from one host to another over the Internet will ALWAYS pass through
A) a single ISP
B) more than 2 ISPs
C) exactly 2 ISPs
D) none of the above
Answer: D
Difficulty: Difficult
Question: 3c
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
8) We call any device connected to the Internet a(n)
A) IP
B) client
C) router
D) host
Answer: D
Difficulty: Basic
Question: 4a
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology
9) Which of the following is a host when it's on a network?
A) a client PC
B) a server
C) a mobile phone
D) all of the above
Answer: D
Difficulty: Basic
Question: 4b
Objective: Discuss how the Internet is changing and the security challenges these changes are creating.
AACSB: Applying Information Technology

- 10) Which of the following is constantly leading to new applications?
- A) increasing speed
- B) increasing reliability
- C) increasing availability wherever you are
- D) all of the above

Answer: D
Difficulty: Basic
Question: 5a

Objective: Discuss how the Internet is changing and the security challenges these changes are

creating.

AACSB: Applying Information Technology, Analytical Thinking

- 11) Who owns the Internet?
- A) The U.S. Government
- B) The United Nations
- C) The IETF
- D) No one

Answer: D

Difficulty: Basic Question: 6a

Objective: Discuss how the Internet is changing and the security challenges these changes are

creating.

AACSB: Applying Information Technology

- 12) Who is in charge of the Internet?
- A) the U.S. Government
- B) the United Nations
- C) the IETF
- D) No one

Answer: D

Difficulty: Basic Ouestion: 6b

Objective: Discuss how the Internet is changing and the security challenges these changes are

creating.

AACSB: Applying Information Technology

- 13) The IETF primarily .
- A) manages the Internet
- B) creates Internet standards
- C) coordinates the work of ISPs
- D) all of the above

Answer: B

Difficulty: Difficult

Question: 6c

Objective: Discuss how the Internet is changing and the security challenges these changes are

creating.

AACSB: Applying Information Technology, Analytical Thinking

14) From a security perspective, the Internet's ability to give access to nearly everyone is a
A) good thing
B) bad thing
C) both A and B
D) neither A nor B
Answer: B
Difficulty: Difficult
Question: 7b
Objective: Discuss how the Internet is changing and the security challenges these changes are
creating.
AACSB: Applying Information Technology, Analytical Thinking
15) In the name Internet, "inter" means
A) between
B) interior
C) international
D) interplanetary
Answer: A
Difficulty: Basic
Question: 8a
Objective: Discuss how the Internet is changing and the security challenges these changes are creating.
AACSB: Applying Information Technology
TATCOD. Applying information recimology
16) Depicting the Internet as a cloud symbolizes
A) the Internet is amorphous
B) the Internet today is too complex to be understandable by humans
C) the Internet is too complex for anyone to depict
D) users do not have to know how the Internet operates
Answer: D
Difficulty: Basic
Question: 9a
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology, Analytical Thinking

17) When you use your tablet to access the internet, the tablet is a  A) client host B) server host C) both A and B D) neither A nor B Answer: A Difficulty: Basic Question: 10a Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the Internet.  AACSB: Applying Information Technology, Application of Knowledge
18) Most servers are  A) mainframes  B) Windows PCs  C) rack servers  D) routers  Answer: C  Difficulty: Basic  Question: 10b  Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet. AACSB: Applying Information Technology
19) The client program is usually a browser.  Answer: FALSE  Difficulty: Basic Question: 11b  Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the Internet.  AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
20) The server program is always a webserver program.  Answer: FALSE  Difficulty: Basic  Question: 11c  Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the Internet.

AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge

21) The network stack implements the layer process.
A) application
B) transport
C) physical
D) data link
Answer: B
Difficulty: Difficult
Question: 12a
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
22) The transport process always fragments the application message.
Answer: FALSE
Difficulty: Difficult
Question: 12c
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
23) What process adds a header in front of an application message or fragment?
A) application
B) transport
C) internet
D) data link
Answer: B
Difficulty: Basic
Question: 12d
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
24) A TCP message is called a
A) datagram
B) packet
C) frame
D) none of the above
Answer: D
Difficulty: Basic
Question: 12e
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology

25) What process adds a header in front of a TCP segment?
A) Application
B) Transport
C) Internet
D) Data Link
Answer: C
Difficulty: Basic
Question: 12f
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
26) An IP packet may include a(n) .
A) application message or fragment
B) TCP segment or UDP datagram
C) both A and B
D) neither A nor B
Answer: C
Difficulty: Difficult
Question: 13
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
27) When a frame arrives, the data link process on the destination host .
A) adds a header
B) removes a header
C) both A and B
D) neither A nor B
Answer: B
Difficulty: Basic
Question: 14a
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
28) The transport layer on the destination host .
A) reassembles the application message if it has been fragmented
B) removes the transport header
C) both A and B
D) neither A nor B
Answer: C
Difficulty: Difficult
Question: 14b
Objective: Explain basic concepts and terminology for the hosts (devices) that connect to the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
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33) Routing is based on a(n)
A) IP address
B) single-network address
C) either A or B
D) neither A nor B
Answer: A
Difficulty: Basic
Question: 17a
Objective: Explain basic concepts and terminology for the Internet itself.
AACSB: Applying Information Technology, Application of Knowledge
34) Router forwarding is called
A) routing
B) switching
C) forwarding
D) none of the above
Answer: A
Difficulty: Difficult
Question: 17b
Objective: Explain basic concepts and terminology for the Internet itself.
AACSB: Applying Information Technology
35) paths across a single network are called
A) routes
B) data links
C) physical links
D) none of the above
Answer: B
Difficulty: Basic
Question: 18a
Objective: Explain basic concepts and terminology for the Internet itself.
AACSB: Applying Information Technology
36) When a source host sends a packet to a destination host, there will probably be
along the way.
A) more routes
B) more data links
C) about the same number of routes and data links
D) all of the above
Answer: B
Difficulty: Difficult
Question: 18d
Objective: Explain basic concepts and terminology for the Internet itself.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge

37) If there are 10 routers between the source and destination hosts, how many transport processes will be involved on all devices?  A) 1  B) 2  C) 10  D) 12  Answer: B  Difficulty: Difficult  Question: 19a  Objective: Explain basic concepts and terminology for the Internet itself.  AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
38) If there are 10 routers between the source and destination hosts, how may internet processe will be involved on all devices?  A) 1  B) 2  C) 10  D) 12  Answer: D  Difficulty: Difficult  Question: 19a  Objective: Explain basic concepts and terminology for the Internet itself.  AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
39) Which of the following is an Internet supervisory protocol?  A) DNS  B) IP  C) both A and B  D) neither A nor B  Answer: A  Difficulty: Difficult  Question: 20  Objective: Explain basic concepts and terminology for the Internet itself.  AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
40) On the Internet, a host usually gets a dynamic IP address.  A) client B) server C) both A and B D) neither A nor B Answer: A Difficulty: Basic Question: 21a Objective: Explain basic concepts and terminology for the Internet itself. AACSB: Applying Information Technology

41) On the Internet, a	host usually gets a static IP address.
A) client	
B) server	
C) both A and B	
D) neither A nor B	
Answer: B	
Difficulty: Basic	
Question: 21b	
-	concepts and terminology for the Internet itself.
AACSB: Applying Inform	
42) 4.1 ( )	ID 11 ' ' ' C 14 1 4 '4 ID
	IP address is easier to find than a host with a IP
address.	
A) dynamic, static	
B) static, dynamic	
C) undetermined, static	
D) undetermined, dynamic	<b>;</b>
Answer: B	
Difficulty: Basic	
Question: 21c	
	concepts and terminology for the Internet itself.
AACSB: Applying Inform	nation Technology, Analytical Thinking, Application of Knowledge
43) A DHCP server to assi	igns the client host the same IP address each time.
Answer: FALSE	
Difficulty: Basic	
Question: 21d	
~	concepts and terminology for the Internet itself.
AACSB: Applying Inform	<u>.                                    </u>
	-
44) When Host A wishes t	to communicate with Host B, a DNS server provides the IP address of
A) Host A	
B) the DNS server	
C) Host B	
D) none of the above	
Answer: C	
Difficulty: Basic	
Question: 22b	
~	concepts and terminology for the Internet itself.
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45) When Host A wishes to talk with Host B, the DHCP server provides the IP address of
A) Host A
B) DNS server
C) Host B
D) all of the above
Answer: A
Difficulty: Difficult
Question: 22b
Objective: Explain basic concepts and terminology for the Internet itself.  AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
46) The originating host needs to contact the DNS server each time it sends a packet to the target host.
Answer: FALSE
Difficulty: Basic
Question: 22c
Objective: Explain basic concepts and terminology for the Internet itself.  AACSB: Applying Information Technology
47) In a single switched network, a connects consecutive switches.
A) physical link
B) data link
C) route
D) none of the above.
Answer: A
Difficulty: Basic Question: 23a
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
48) In a point-to-point single network, how many physical links will there be when a packet is transmitted?  A) 0
B) 1
C) 2
D) We cannot say with the information provided.
Answer: B
Difficulty: Basic
Question: 23b
Objective: Explain basic concepts and terminology for single networks and their role on the Internet.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge

49) When a packet is transmitted, there is a single data link in each . A) point-to-point single network B) switched network C) both A and B D) neither A nor B Answer: C Difficulty: Basic Question: 23c Objective: Explain basic concepts and terminology for single networks and their role on the AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge 50) In a point-to-point single network, there is always the same number of physical and data links. Answer: TRUE Difficulty: Difficult Ouestion: 23c Objective: Explain basic concepts and terminology for single networks and their role on the Internet. AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge 51) Which of the following is true? A) Frames are carried inside packets. B) Packets are carried inside frames. C) both A and B D) neither A nor B Answer: B Difficulty: Basic Question: 25a Objective: Explain basic concepts and terminology for single networks and their role on the Internet. AACSB: Applying Information Technology 52) A host sends a packet to another host containing seven single networks along the way. How many other hosts will there be along the route when Host A transmits? A) 1 B) 2 C) 7 D) 9 Answer: A

Difficulty: Difficult Ouestion: 25b

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Objective: Explain basic concepts and terminology for single networks and their role on the

Internet.

AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge

53) A host sends a packet to another host containing six single networks along the way. How many data links are used for this transmission?  A) 1
B) 6
C) 7
D) 8
Answer: B
Difficulty: Difficult
Question: 25c
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
54) A host sends a packet to another host containing six single networks along the way. How many routes are included in this transmission?
A) 1
B) 6
C) 7
D) 8 Answer: A
Difficulty: Basic
Question: 25d
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
11 7 8 87 11
55) A host sends a packet to another host with six single networks along the way. How many
frames are involved?
A) 1
B) 6
C) 7
D) 8
Answer: B
Difficulty: Basic
Question: 25e  Objective: Explain basic concents and terminology for single networks and their role on the
Objective: Explain basic concepts and terminology for single networks and their role on the Internet.
AACSB: Applying Information Technology, Application of Knowledge

56) A host sends a packet to another host with six single networks along the way. How many
packets are involved in this transmission?
A) 1
B) 6
C) 7
D) 8
Answer: A
Difficulty: Basic
Question: 25d
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
57) In a single switched network with seven switches between a source and destination host, the
source host <i>addresses</i> the frame
A) to the first switch
B) to the destination host
C) to the first router
D) to the final switch
Answer: B
Difficulty: Difficult
Question: 25g
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
58) The final router in a route sends the packet being routed in a frame addressed to the
A) next-hop router
B) destination host
C) local router
D) default router
Answer: B
Difficulty: Difficult
Question: 25h
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
59) All data link addresses are EUI-48 addresses.
Answer: FALSE

Difficulty: Basic Question: 26a

Objective: Explain basic concepts and terminology for single networks and their role on the

Internet.

AACSB: Applying Information Technology

60) Source and destination IP addresses are found in the header.
A) IP
B) Frame
C) TCP
D) all of the above.
Answer: A
Difficulty: Basic
Question: 26b
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
61) Source and destination EUI-48 addresses are found in headers. A) IP
B) frame
C) TCP
D) UDP
Answer: B
Difficulty: Basic
Question: 26c
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Application of Knowledge
62) Ethernet uses addresses.
62) Ethernet uses addresses. A) IPv4
A) IPv4
A) IPv4 B) IPv6
A) IPv4
A) IPv4 B) IPv6 C) MAC
A) IPv4 B) IPv6 C) MAC D) EUI-48 Answer: D
A) IPv4 B) IPv6 C) MAC D) EUI-48 Answer: D Difficulty: Basic
A) IPv4 B) IPv6 C) MAC D) EUI-48 Answer: D Difficulty: Basic Question: 26d
A) IPv4 B) IPv6 C) MAC D) EUI-48 Answer: D Difficulty: Basic
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A) IPv4 B) IPv6 C) MAC D) EUI-48 Answer: D Difficulty: Basic Question: 26d Objective: Explain basic concepts and terminology for single networks and their role on the Internet. AACSB: Applying Information Technology
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A) IPv4 B) IPv6 C) MAC D) EUI-48 Answer: D Difficulty: Basic Question: 26d Objective: Explain basic concepts and terminology for single networks and their role on the Internet. AACSB: Applying Information Technology  63) Wi-Fi uses addresses. A) IPv4 B) IPv6 C) MAC D) EUI-48 Answer: D Difficulty: Basic Question: 26e

64) Which of the following uses EUI-48 addresses?
A) Ethernet
B) Wi-Fi
C) both A and B
D) neither A nor B
Answer: C
Difficulty: Basic
Question: 26e
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
65) Hosts on the Internet have addresses.
A) IP
B) data link
C) both A and B
D) neither A nor B
Answer: C
Difficulty: Difficult
Question: 26f
Objective: Explain basic concepts and terminology for single networks and their role on the
Internet.  A A CSD. A pulsing Information Technology. A policieal Thinking. A pulsation of Knowledge.
AACSB: Applying Information Technology, Analytical Thinking, Application of Knowledge
66) have access points.
A) Home access routers
B) Internet core routers
C) both A and B
D) neither A nor B
Answer: A
Difficulty: Basic
Question: 27a
Objective: Explain the distinctions between Internet routers and personal access routers; explain
the differences between personal access routers and wireless access points.
AACSB: Applying Information Technology, Application of Knowledge

- 67) \_\_\_\_\_ have DHCP servers.
- A) Home access routers
- B) Internet core routers
- C) both A and B
- D) neither A nor B

Answer: A

Difficulty: Basic Question: 27a

Objective: Explain the distinctions between Internet routers and personal access routers; explain

the differences between personal access routers and wireless access points. AACSB: Applying Information Technology, Application of Knowledge

- 68) Which of the following has better access point capabilities?
- A) Home access routers
- B) Corporate access points
- C) Both have about the same access point capabilities.

Answer: B

Difficulty: Basic Question: 27c

Objective: Explain the distinctions between Internet routers and personal access routers; explain

the differences between personal access routers and wireless access points.

AACSB: Applying Information Technology, Application of Knowledge