Business Data Networks and Security, 10e (Panko) Chapter 2 Network Standards

1) Internet standards are published as
A) RFCs
B) IETFs
C) TCP/IPs
D) Internet Protocols
Answer: A
Diff: 1
Question: 1a
Objective: Explain how internet standards are made and why this approach is valuable.
Classification: Concept
2) <i>Standards</i> mean the same thing as
A) semantics
B) syntax
C) rules
D) protocols
Answer: D
Diff: 1
Question: 2a
Objective: Provide the definitions of network standards and protocols, message syntax,
semantics, and order.
Classification: Concept
3) Standards govern
A) semantics
B) syntax
C) both A and B
D) neither A nor B
Answer: C
Diff: 1
Question: 3a
Objective: Provide the definitions of network standards and protocols, message syntax,
semantics, and order.
Classification: Concept

4) The meaning of a message is referred to as the message's
A) protocol
B) order
C) syntax
D) semantics
Answer: D
Diff: 1
Question: 3b
Objective: Provide the definitions of network standards and protocols, message syntax,
semantics, and order.
Classification: Concept
5) How a message is organized is its
A) protocol
B) order
C) syntax
D) semantics
Answer: C
Diff: 1
Question: 3c
Objective: Provide the definitions of network standards and protocols, message syntax,
semantics, and order.
Classification: Concept
6) A message's semantics is its
6) A message's semantics is its A) protocol
A) protocol
A) protocol B) message order
A) protocol B) message order C) meaning
A) protocol B) message order C) meaning D) structure
A) protocol B) message order C) meaning D) structure Answer: C
A) protocol B) message order C) meaning D) structure Answer: C Diff: 1
A) protocol B) message order C) meaning D) structure Answer: C Diff: 1 Question: 3d
A) protocol B) message order C) meaning D) structure Answer: C Diff: 1 Question: 3d Objective: Provide the definitions of network standards and protocols, message syntax,
A) protocol B) message order C) meaning D) structure Answer: C Diff: 1 Question: 3d Objective: Provide the definitions of network standards and protocols, message syntax, semantics, and order. Classification: Concept
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A) browser
B) Webserver application program
C) They transmit simultaneously.
D) It depends on the situation.
Answer: A
Diff: 1
Question: 4a
Objective: Discuss message ordering in general and in HTTP and TCP.
Classification: Application
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9) In HTTP, which program may initiate communication?
A) browser
B) Webserver program
C) both A and B
D) neither A nor B
Answer: A
Diff: 1
Question: 4b
Objective: Discuss message ordering in general and in HTTP and TCP.
Classification: Application
Classification: Tippincation
10) Host P transmits a SYN segment to Host Q. If host Q is willing to open the connection, it
will transmit a(n) segment.
A) ACK
B) SYN
C) SYN/ACK
D) none of the above
Answer: C
Diff: 1
Question: 4c
Objective: Discuss message ordering in general and in HTTP and TCP.
Classification: Application
11) If a destination hast does not receive a segment it will
11) If a destination host does not receive a segment, it will
A) transmit an ACK segment
B) transmit a NAC segment
C) transmit an RSND segment
D) none of the above
Answer: D
Diff: 2
Question: 4d
Objective: Discuss message ordering in general and in HTTP and TCP.
Classification: Application

8) In an HTTP, which one (browser or Webserver application program) transmits message first?

12) If the destination host receives a segment that has an error, it will
A) transmit an ACK segment
B) transmit a NAC segment
C) transmit an RSND segment
D) none of the above
Answer: C
Diff: 2
Question: 4e
Objective: Discuss message ordering in general and in HTTP and TCP.
Classification: Application
11
13) A sending host will retransmit a TCP segment if it
A) receives an ACK segment
B) receives a NAC segment
C) receives an RPT segment
D) none of the above
Answer: D
Diff: 2
Question: 4f
Objective: Discuss message ordering in general and in HTTP and TCP.
Classification: Application
Classification. Application
14) In a four-step close, which side transmits a FIN segment?
A) the side that initiates the close
B) the other side
C) either side
D) neither side
Answer: C
Diff: 1
Question: 4g
Objective: Discuss message ordering in general and in HTTP and TCP.
Classification: Application
15) After the side wishing to alone a TCD composition conde a EIN accompany the other side will
15) After the side wishing to close a TCP connection sends a FIN segment, the other side will
A) not send any more segments
B) only send ACK segments
C) only send FIN segments
D) none of the above
Answer: B
Diff: 2
Question: 4h
Objective: Discuss message ordering in general and in HTTP and TCP.
Classification: Application

16) Which of the following is inside the header of messages?
A) address field
B) IP address field
C) data field
D) trailer
Answer: A
Diff: 3
Question: 5a
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application
17) The contains the content being delivered by a message.
A) address field
B) header
C) data field
D) trailer
Answer: C
Diff: 1
Question: 5b
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
Classification. Concept
18) A message always has a
A) header
B) data field
C) both A and B
D) neither A nor B
Answer: A
Diff: 3
Question: 5c
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application
19) Which part of a message is less often in a message compared to the other two parts?
A) header
B) data field
C) trailer
D) All of the above are commonly seen in all messages.
Answer: C
Diff: 2
Question: 5d
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application

20) "Octet" is the same as
A) "bit"
B) "byte"
C) either A or B, depending on the context
D) neither A nor B
Answer: B
Diff: 1
Question: 5e
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
21) EUI-48 addresses are
A) 32 bits long
B) 48 bits long
C) 128 bits long
D) Address length varies.
Answer: B
Diff: 1
Question: 6a
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
22) An EUI-48 address was formerly called a(n) address.
A) IPv4
B) IPv6
C) MAC
D) DNS
Answer: C
Diff: 1
Question: 6b
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application
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23) read(s) the destination address in an Ethernet frame.
A) The destination host
B) Switches in the network
C) both A and B
D) neither A nor B
Answer: C
Diff: 3
Question: 6c
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application
Classification. Application
24) If the destination host finds an error in an Ethernet frame, it
A) sends back a NAK
B) sends back a ACK
C) both A and B
D) neither A nor B
Answer: D
Diff: 1
Question: 6d
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
05) Fit 1
25) Ethernet does
A) error detection
B) error correction
C) both A and B
D) neither A nor B
Answer: A
Diff: 1
Question: 6e
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
26) In IP, the first bit in the second row is
A) 0
B) 31
C) 32
D) 63
Answer: C
Allswer. C
Diff: 3
Diff: 3
Diff: 3 Question: 7a
Diff: 3 Question: 7a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
Diff: 3 Question: 7a

- 27) How long are IPv4 addresses?
- A) 4 bits
- B) 32 bits
- C) 48 bits
- D) 128 bits

Answer: B Diff: 1

Question: 7b

Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP

segments, UDP datagrams, and HTTP request and response messages.

Classification: Concept

- 28) How long are IPv4 addresses in octets?
- A) 4 octets
- B) 32 octets
- C) 48 octets
- D) 128 octets

Answer: A Diff: 3

Question: 7c

Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP

segments, UDP datagrams, and HTTP request and response messages.

Classification: Application

- 29) To make a forwarding decision, a router looks at the arriving packet's _____.
- A) destination IP address
- B) destination EUI-48 address
- C) both A and B
- D) MAC addresses

Answer: A Diff: 3

Question: 7d

Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP

segments, UDP datagrams, and HTTP request and response messages.

Classification: Application

A) reliable
B) unreliable
C) semi-reliable
D) unreliable or reliable depending on the situation
Answer: B
Diff: 1
Question: 7e
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
31) TCP messages are called
A) segments
B) fragments
C) packets
D) datagrams
Answer: A
Diff: 1
Question: 8a
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
Composition Conseq.
32) TCP has six single-bit fields in headers and these single-bit fields are called fields.
32) TCP has six single-bit fields in headers and these single-bit fields are called fields. A) port
A) port
A) port B) flag
A) port B) flag C) ACK
A) port B) flag C) ACK D) binary
A) port B) flag C) ACK D) binary Answer: B
A) port B) flag C) ACK D) binary Answer: B Diff: 1
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34) The UDP has fields.
A) 4
B) 8
C) 16
D) 32
Answer: A
Diff: 1
Question: 10a
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
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35) The UDP
A) is unreliable
B) has a checksum field
C) both A and B
D) neither A nor B
Answer: C
Diff: 2
Question: 10b
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
36) UDP is
A) reliable
B) unreliable
C) It depends on the situation.
D) none of the above
Answer: B
Diff: 1
Question: 10c
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept

37) On a server, well-known port numbers indicate
A) applications
B) connections with client computers
C) both A and B
D) neither A nor B
Answer: A
Diff: 2
Question: 11a
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
38) For every conversation, a client randomly generates an ephemeral port number for
A) applications
B) conversations
C) both A and B
D) neither A nor B
Answer: B
Diff: 2
Question: 11b
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
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39) The range of port 1024 to port 4999 is the usual range for port numbers.
A) well-known
B) ephemeral
C) both A and B
D) neither A nor B
Answer: B
Diff: 3
Question: 11c
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept

40) 2500 is in the range for port numbers.
A) well-known
B) ephemeral
C) both A and B
D) neither A nor B
Answer: B
Diff: 3
Question: 11d
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application
41) The source socket is 60.171.18.22:2707. The source is a(n)
A) client
B) server
C) well-known server
D) ephemeral server
Answer: A
Diff: 2
Question: 11e
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application
42) Which of the following is a socket?
42) Which of the following is a socket? A) 80
A) 80
A) 80 B) 21
A) 80 B) 21 C) both A and B
A) 80 B) 21 C) both A and B D) neither A nor B
A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2 Question: 12a
A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2
A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2 Question: 12a
A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2 Question: 12a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2 Question: 12a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept
A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2 Question: 12a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 43) The source socket is 60.171.18.22:2707. The source host is a(n)
A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2 Question: 12a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 43) The source socket is 60.171.18.22:2707. The source host is a(n) A) client
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A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2 Question: 12a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 43) The source socket is 60.171.18.22:2707. The source host is a(n) A) client B) server C) well-known server D) ephemeral server Answer: A Diff: 2 Question: 12b Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
A) 80 B) 21 C) both A and B D) neither A nor B Answer: D Diff: 2 Question: 12a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 43) The source socket is 60.171.18.22:2707. The source host is a(n) A) client B) server C) well-known server D) ephemeral server Answer: A Diff: 2 Question: 12b

44) The destination socket is 60.171.18.22:161. The destination host is a(n)
A) client
B) server
C) well-known server
D) ephemeral server
Answer: B
Diff: 2
Question: 12c
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application
45) The confidence of a dead in classes along a
45) The application standard is almost always
A) HTTP
B) TCP
C) reliable D) None of the above is true.
Answer: D
Diff: 2
Question: 13a
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Application
Classification. Application
46) Which of the following layers has more standards than the other three layers?
A) data link
B) Internet
C) transport
D) application
Answer: D
Diff: 2
Question: 13b
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept

47) At which layer would you find standards for requesting videos from a video-sharing site such as YouTube? A) application B) transport C) Internet D) none of the above Answer: A Diff: 2 Question: 13c Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Application
48) At which layer would you find file transfer protocol (FTP) standards for downloading files from an FTP server? A) application B) transport C) Internet D) none of the above Answer: A Diff: 2 Question: 13d Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Application
49) In HTTP headers, the end of a header field is usually indicated by a A) . B) : C) ; D) none of the above Answer: D Diff: 2 Question: 13e Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Application

50) In HTTP, the end of a header field is usually indicated by a
A) bit position
B) CRLF
C) colon
D) blank line
Answer: B
Diff: 2
Question: 13f
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
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51) An HTTP request message usually has a
A) header
B) data field
C) both A and B
D) neither A nor B
Answer: A
Diff: 2
Question: 13g
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
52) A. HTTD
52) An HTTP response message usually has a
A) trailer
B) data field
C) both A and B
D) neither A nor B
Answer: B
Diff: 2
Question: 13h
Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP
segments, UDP datagrams, and HTTP request and response messages.
Classification: Concept
50) C
53) Converting application messages into bits is called
A) encapsulation
B) encryption
C) encoding
D) exchange
Answer: C
Diff: 1
Question: 14a
Objective: Explain how to encode application messages into bits (1s and 0s).
Classification: Concept

- 54) At what layer is encoding done?
- A) application
- B) transport
- C) Internet
- D) none of the above

Answer: A Diff: 3

Question: 14b

Objective: Explain how to encode application messages into bits (1s and 0s).

Classification: Concept

- 55) How many bytes will it take to transmit "Brain Dead" without the quotation marks?
- A) 2
- B) 3
- C) 9
- D) none of the above

Answer: D Diff: 3

Question: 15a

Objective: Explain how to encode application messages into bits (1s and 0s).

Classification: Application

- 56) Which of the following is an integer?
- A) 4,307
- B) 45.7
- C) both A and B
- D) neither A nor B

Answer: A Diff: 1

Question: 16a

Objective: Explain how to encode application messages into bits (1s and 0s).

Classification: Application

- 57) Convert the binary number 100 to decimal.
- A) It is in decimal.
- B) 2
- C) 4
- D) 8

Answer: C Diff: 2

Question: 16b

Objective: Explain how to encode application messages into bits (1s and 0s).

Classification: Application

58) Convert a decimal number 15 to the binary number.
A) It is a binary number.
B) 1100
C) 1101
D) 1111
Answer: D
Diff: 3
Question: 16c
Objective: Explain how to encode application messages into bits (1s and 0s).
Classification: Application
59) Convert decimal 8 to binary.
A) 100
B) 1000
C) 10000
D) 111
Answer: B
Diff: 3
Question: 16d
Objective: Explain how to encode application messages into bits (1s and 0s).
Classification: Application
Classification. Application
60) A 5-bit field can represent alternatives or different combinations.
A) 8
B) 16
C) 32
D) 64
Answer: C
Diff: 2
Question: 17a
Objective: Explain how to encode application messages into bits (1s and 0s).
Classification: Application
Classification. Application
61) A 7-bit field can represent alternatives or different combinations.
A) 14
B) 49
C) 128
D) 256
Answer: C
Diff: 2
Question: 17b
Objective: Explain how to encode application messages into bits (1s and 0s).
Classification: Application
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62) To represent 65 alternatives, your alternatives field would have to be at least long. A) 5 B) 6 C) 7 D) 8 Answer: C Diff: 2 Question: 17c Objective: Explain how to encode application messages into bits (1s and 0s). Classification: Application	bits
63) The five senses can be represented with abit field. A) 2 B) 3 C) 4 D) 5 Answer: B Diff: 2 Question: 17d Objective: Explain how to encode application messages into bits (1s and 0s). Classification: Application	
64) The electrical signal generated by a microphone is called a(n) signal. A) binary B) digital C) analog D) Either A or B. Answer: C Diff: 1 Question: 18a Objective: Explain how to encode application messages into bits (1s and 0s). Classification: Concept	
65) A codec A) encodes voice sounds into digital signals for transmission B) encodes voice sounds into analog signals for transmission C) encrypts the signal D) converts binary voice signals into digital signals for transmission Answer: D Diff: 3 Question: 18b Objective: Explain how to encode application messages into bits (1s and 0s). Classification: Application	

66) is placing a message in the data field of another message. A) Encoding B) Vertical communication C) Layering D) Encapsulation Answer: D Diff: 2 Question: 19a Objective: Explain vertical communication on hosts. Classification: Concept
67) After the Internet layer process does encapsulation, it passes the IP packet to the layer process. A) transport B) data link C) physical D) none of the above Answer: B Diff: 2 Question: 19b Objective: Explain vertical communication on hosts. Classification: Application
68) After the data link layer process does encapsulation, it passes the IP packet to the layer process. A) physical B) internet C) transport D) none of the above Answer: A Diff: 1 Question: 19c Objective: Explain vertical communication on hosts. Classification: Application
69) Which layer process does NOT do any encapsulation when an application layer process transmits a message? A) physical B) data link C) Internet D) All layers do encapsulation. Answer: A Diff: 1 Question: 19d Objective: Explain vertical communication on hosts. Classification: Application