## **Business Data Networks and Telecommunications 8th Edition Panko Test Bank**

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## Business Data Networks and Telecommunications, 8e (Panko) Chapter 2 Network Standards

<ol> <li>Network standards are also called protocols.</li> <li>A) True.</li> <li>B) False.</li> <li>Answer: A</li> <li>Diff: 1 Page Ref: 45</li> <li>TYU: 1b</li> </ol>
2) Standards govern A) semantics B) syntax C) Both A and B D) Neither A nor B Answer: C Diff: 2 Page Ref: 49 TYU: 2a
3) The meaning of a message is referred to as the message's  A) protocol B) order C) value D) syntax E) semantics Answer: E Diff: 1 Page Ref: 51 TYU: 2c
4) How a message is organized is its  A) syntax B) semantics C) order D) Both A and B Answer: A Diff: 1 Page Ref: 51 TYU: 2c
<ul> <li>5) In HTTP, a server may initiate an interaction with the client.</li> <li>A) True.</li> <li>B) False.</li> <li>Answer: B</li> <li>Diff: 2 Page Ref: 51</li> <li>TYU: 3b</li> </ul>

6) Host P transmits a SYN to Host Q. If host Q is willing to open the connection, it will transm a(n) segment.  A) ACK B) SYN C) SYN/ACK D) None of the above.  Answer: C Diff: 1 Page Ref: 52 TYU: 3c
7) If the 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 Page Ref: 54  TYU: 3d
8) If the destination host receives a segment that is incorrect, it will  A) transmit an ACK segment B) transmit a NAC segment C) transmit an RST segment D) None of the above.  Answer: D Diff: 2 Page Ref: 54 TYU: 3e
9) A host will retransmit a TCP segment if  A) it receives an ACK segment B) it receives a NAC segment C) it receives an RST segment. D) None of the above. Answer: D Diff: 2 Page Ref: 54 TYU: 3f
10) The side wishing to close a TCP segment sends a(n) segment.  A) SYN  B) ACK  C) FIN  D) None of the above.  Answer: C  Diff: 1 Page Ref: 54  TYU: 3g

11) After the side wishing to close a TCP connection sends a FIN segment, it 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 Page Ref: 54
TYU: 3h
12) Which of the following is NOT one of the three general parts of messages?
A) Address field.
B) Header.
C) Data field.
D) Trailer.
Answer: A Diff: 2 Page Ref: 55
TYU: 4a
13) The contains the content being delivered by a message.
A) address field B) header
C) data field
D) trailer
Answer: C
Diff: 1 Page Ref: 55
TYU: 4b
14) The header is defined as everything that comes before the data field.
A) True.
B) False.
Answer: A
Diff: 1 Page Ref: 55 TYU: 4c
15) Messages always have data fields.
A) True.  P) Folco
B) False. Answer: B
Diff: 2 Page Ref: 56
TYU: 4d
16) Most or all messages have trailers.
A) True.
B) False.
Answer: B
Diff: 2 Page Ref: 56
TYU: 4f

17) Headers usually are divided into fields.
A) True.
B) False.
Answer: A
Diff: 2 Page Ref: 56
TYU: 4g
18) "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 Page Ref: 57
TYU: 4h
19) Ethernet addresses are
A) 32 bits long
B) 48 bits long
C) 128 bits long
D) None of the above.
Answer: B
Diff: 1 Page Ref: 57
TYU: 5b
20) Ethernet addresses are
A) 4 octets long
B) 6 octets long
C) 32 octets long
D) 48 octets long
Answer: B
Diff: 2 Page Ref: 57
TYU: 5b
21) In an Ethernet frame, the IP packet is carried in the field.
A) source address
B) destination address
C) data
D) frame check sequence
E) None of the above.
Answer: C
Diff: 2 Page Ref: 58
TYU: 5d

22) Ethernet does A) error detection B) error correction C) Both A and B D) Neither A nor B Answer: A Diff: 1 Page Ref: 58 TYU: 5e
<ul> <li>23) Ethernet detects errors but does not correct them. Therefore, Ethernet is reliable.</li> <li>A) True.</li> <li>B) False.</li> <li>Answer: B</li> <li>Diff: 2 Page Ref: 58</li> <li>TYU: 5f</li> </ul>
24) In an IP header, the first bit in the second row is bit  A) 0  B) 31  C) 32  D) 33  E) We cannot say.  Answer: C  Diff: 2 Page Ref: 59  TYU: 6b
25) How long are IP addresses? A) 32 bits. B) 48 bits. C) 20 octets. D) 32 octets. E) 128 bits. Answer: A Diff: 1 Page Ref: 59 TYU: 6d
26) B7-22-DD-6F-C8-AB is an address. A) Ethernet B) IP C) Either A or B Answer: A Diff: 1 Page Ref: 57, 59 TYU: 6e

27) 217.42.18.248 is an address.  A) Ethernet B) IP C) Either A or B Answer: B Diff: 1 Page Ref: 59 TYU: 6e
28) Routers make forward decisions based on a packet's source IP address.  A) True.  B) False.  Answer: B  Diff: 1 Page Ref: 59  TYU: 6g
29) Routers make packet forwarding decisions based on a packet's  A) source IP address B) destination IP address C) Both A and B D) Neither A nor B Answer: B Diff: 1 Page Ref: 59 TYU: 6g
30) IP is reliable. A) True. B) False. Answer: B Diff: 1 Page Ref: 59 TYU: 6h
31) IP detects errors but does not correct them. Therefore, IP is reliable.  A) True.  B) False.  Answer: B  Diff: 2 Page Ref: 59  TYU: 6h
32) To handle internetwork transmission control tasks that IP cannot handle, the IETF created TCP.  A) True. B) False. Answer: A Diff: 1 Page Ref: 60 TYU: 7a

33) TCP messages are called
A) frames
B) data fields
C) packets
D) segments
E) fragments
Answer: D
Diff: 2 Page Ref: 60
TYU: 7c
34) One-bit fields are called fields.
A) digital
B) binary
C) flag
D) ACK
E) None of the above.
Answer: C
Diff: 1 Page Ref: 60
TYU: 8b
110. 00
35) If someone says that a 1-bit flag is set, this means that it is given the value
A) 0
B) 1
C) Either of the above.
D) Neither of the above.
Answer: B
Diff: 1 Page Ref: 60
TYU: 8c
110. 00
36) If the ACK bit is set, the acknowledgement number field MUST have a value.
A) True.
B) False.
Answer: A
Diff: 1 Page Ref: 60
TYU: 8d
110. 00
37) Port fields are found in
A) UDP headers
B) TCP headers
C) Both A and B
D) Neither A nor B
Answer: C
Diff: 1 Page Ref: 60, 62
TYU: 9a

38) UDP checks messages for errors but does not correct them. UDP is
A) reliable
B) unreliable
C) Both A and B
D) Neither A nor B
Answer: B
Diff: 2 Page Ref: 62
TYU: 9d
20) Which of the following has part numbers in its header?
39) Which of the following has port numbers in its header?
A) UDP.
B) TCP.
C) Both A and B
D) Neither A nor B
Answer: C
Diff: 1 Page Ref: 62
TYU: 10a
40) Well by over next assurbers are accessived with
40) Well-known port numbers are associated with
A) applications
B) switches
C) routers
D) None of the above.
Answer: A
Diff: 2 Page Ref: 62
TYU: 10b
41) What is (are) the well-known port number(s) for HTTP?
A) 20 and 21.
B) 25.
C) 80.
D) None of the above.
Answer: C
Diff: 1 Page Ref: 62
TYU: 10d
110. 10d
42) What is (are) the well-known port number(s) for SMTP?
A) 20 and 21.
B) 25.
C) 80.
D) None of the above.
Answer: B
Diff: 2 Page Ref: 62
<u> </u>
TYU: 10e

- 43) What is (are) the well-known port number(s) for FTP?
- A) 20 and 21.
- B) 25.
- C) 80.
- D) None of the above.

Answer: A

Diff: 3 Page Ref: 62

TYU: 10f

- 44) The application layer standard always is HTTP.
- A) True.
- B) False.

Answer: B

Diff: 1 Page Ref: 63

TYU: 11a

- 45) Which of the following layers has the most standards?
- A) Data link.
- B) Internet.
- C) Transport.
- D) Application.

Answer: D

Diff: 2 Page Ref: 63

TYU: 11b

- 46) Which layer has more standards?
- A) Internet.
- B) Application.
- C) Both of the above have about the same number of standards.

Answer: B

Diff: 2 Page Ref: 63

TYU: 11b

- 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) Data link.
- E) All of the above.

Answer: A

Diff: 2 Page Ref: 63

TYU: 11c

<ul> <li>48) At which layer would you find file transfer protocol standards for downloading files?</li> <li>A) Application.</li> <li>B) Transport.</li> <li>C) Internet.</li> <li>D) Data link.</li> <li>E) All of the above.</li> <li>Answer: A</li> <li>Diff: 3 Page Ref: 63</li> <li>TYU: 11c</li> </ul>
<ul> <li>49) Nearly all application standards are simple, like HTTP.</li> <li>A) True.</li> <li>B) False.</li> <li>Answer: B</li> <li>Diff: 1 Page Ref: 63</li> <li>TYU: 11d</li> </ul>
50) In HTTP, most response message header fields consist of a keyword, an equal sign, and the value for the keyword.  A) True.  B) False.  Answer: B  Diff: 2 Page Ref: 63  TYU: 11e
51) In HTTP, the end of a header field is indicated by a  A) bit position  B) byte position  C) CRLF  D) colon  E) blank line  Answer: C  Diff: 2 Page Ref: 65  TYU: 11f
52) 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: 1 Page Ref: 63 TYU: 11g

53) An HTTP response message has a  A) trailer  B) data field  C) Both A and B  D) Neither A nor B  Answer: B  Diff: 2 Page Ref: 65  TYU: 11h
54) Converting application messages into bits is called  A) encapsulation B) encryption C) encoding D) conversion Answer: C Diff: 1 Page Ref: 65 TYU: 12a
55) How many bytes will it take to transmit "Can you hear me now?" without the quotation marks?  A) 5 B) 6 C) 9 D) 10 E) None of the above.  Answer: E Diff: 2 Page Ref: 66 TYU: 13a
56) Binary counting usually begins at 1. A) True. B) False. Answer: B Diff: 2 Page Ref: 66 TYU: 14a
57) In binary, 13 is 1101. What is 14? A) 1110 B) 1111 C) Neither A nor B Answer: A Diff: 1 Page Ref: 67 TYU: 14b

58) If you have a field with N bits, you can represent N <sup>2</sup> items. A) True.
B) False.
Answer: B
Diff: 2 Page Ref: 67
TYU: 15a
59) A 5-bit field can represent alternatives. A) 4 B) 8 C) 16 D) 32 E) 64
Answer: D
Diff: 1 Page Ref: 67 TYU: 15b
60) Increasing an alternatives field length by one bit always doubles the number of alternatives it can represent.  A) True. B) False. Answer: A Diff: 2 Page Ref: 68 TYU: 15c
61) A 7-bit field can represent alternatives.  A) 14  B) 49  C) 128  D) 256  E) 512  Answer: C  Diff: 1 Page Ref: 67-68  TYU: 15d
62) To represent 65 alternatives, your alternatives field would have to be bits long.  A) 4  B) 5  C) 6  D) 7  E) 8  Answer: D  Diff: 1 Page Ref: 68  TYU: 15f

63) is placing a message in the data field of another message.
A) Nesting
B) Vertical communication
C) Layering
D) Encapsulation
Answer: D
Diff: 1 Page Ref: 69
TYU: 16a
64) The fact that two processes other than physical layer processes cannot communicate directly
requires the use of encapsulation.
A) True.
B) False.
Answer: A
Diff: 2 Page Ref: 69
TYU: 16b
65) After the internet layer process does encapsulation, it passes the IP packet to the
layer process.
A) physical
B) transport
C) data link
D) application
E) None of the above.
Answer: C
Diff: 1 Page Ref: 69-70
TYU: 16c
66) After the data link layer process does encapsulation, it passes the IP packet to the
layer process.
A) physical
B) transport
C) data link
D) application
E) None of the above.
Answer: A
Diff: 1 Page Ref: 69-70
TYU: 16d

- 67) Which layer process does NOT do encapsulation when an application layer process transmits a message?
- A) Physical.
- B) Transport.
- C) Data link.
- D) Internet.
- E) All do encapsulation.

Answer: A

Diff: 2 Page Ref: 70

TYU: 16e

- 68) Network standards architectures break the standards functionality needed for communication into layers and define the functions of each layer.
- A) True.
- B) False.

Answer: A

Diff: 2 Page Ref: 70

**TYU:** 17a

- 69) In what order are standards and standards architectures developed?
- A) The standards architecture is developed first.
- B) Individual standards are developed first.
- C) They are developed simultaneously.

Answer: A

Diff: 1 Page Ref: 70

TYU: 17b

- 70) Which of the following is a network standards architecture?
- A) ISO.
- B) TCP/IP.
- C) Both A and B
- D) Neither A nor B

Answer: B

Diff: 2 Page Ref: 71

**TYU: 17c** 

- 71) What is the dominant network standards architecture in most real firms today?
- A) OSI.
- B) TCP/IP.
- C) Neither A nor B

Answer: C

Diff: 2 Page Ref: 71

TYU: 17d

72) A corporate network can use either OSI standards at all layers or TCP/IP standards at all layers, but cannot use OSI standards at some layers and TCP/IP standards at other layers.  A) True.  B) False.  Answer: B  Diff: 2 Page Ref: 72  TYU: 17e
73) Which of the following is a standards agency for OSI?  A) IETF. B) ITU-T. C) Both A and B D) Neither A nor B Answer: B Diff: 2 Page Ref: 73 TYU: 18a
74) Which of the following is a network standards architecture? A) ISO. B) OSI. C) Both A and B D) Neither A nor B Answer: B Diff: 2 Page Ref: 72 TYU: 18a
75) OSI is dominant at the layer. A) physical B) internet C) Both A and B D) Neither A nor B Answer: A Diff: 2 Page Ref: 73 TYU: 18b
76) OSI is dominant at the layer. A) data link B) transport C) Both A and B D) Neither A nor B Answer: A Diff: 2 Page Ref: 73 TYU: 18b

77) OSI is dominant at A) transport B) internet C) Both A and B D) Neither A nor B Answer: D Diff: 2 Page Ref: 73 TYU: 18b	thelayer.
78) The OSIrollback point. A) application B) presentation C) session D) transport E) All of the above. Answer: C Diff: 3 Page Ref: 74 TYU: 18c	layer allows application communication to be restarted at the last
79) The OSI computers. A) application B) presentation C) session D) data E) All of the above. Answer: B Diff: 3 Page Ref: 74 TYU: 18d	layer is designed to handle data formatting differences between two
80) The OSI A) application B) presentation C) session D) data E) All of the above. Answer: B Diff: 3 Page Ref: 74 TYU: 18d	layer is designed to handle compression and encryption for applications

81) The OSI presentation layer is <b>actually</b> used
A) to convert between file formats
B) as a category for data file standards used by multiple applications
Answer: B
Diff: 3 Page Ref: 74
TYU: 18e
110. 100
92) Which of the following is NOT on OCI lever?
82) Which of the following is NOT an OSI layer?
A) Data link.
B) Internet.
C) Session.
D) Presentation.
E) Application.
Answer: B
Diff: 2 Page Ref: 74
TYU: 18f
83) In OSI, the presentation layer is Layer
A) 7
B) 6
C) 5
D) 4
E) None of the above.
Answer: B
Diff: 3 Page Ref: 74
TYU: 18f
84) Which of the following is an architecture?
A) IP.
B) TCP.
C) Both A and B
D) Neither A nor B
Answer: D
Diff: 2 Page Ref: 75
TYU: 19a
110, 15
85) Which of the following is a standard?
A) TCP/IP.
B) IP.
C) Both A and B
, , , , , , , , , , , , , , , , , , ,
D) Neither A nor B
Answer: B
Diff: 2 Page Ref: 75
TYU: 19b

A) ITU-T. B) IETF. C) OSI. D) TCP/IP. Answer: B Diff: 1 Page Ref: 75 TYU: 19c
87) TCP/IP became dominant in corporations primarily because of
A) its use on the Internet
B) its relatively simple standards
Answer: B
Diff: 3 Page Ref: 75
TYU: 19d
88) Most IETF documents are called A) official internet standards
B) TCP/IP standards
C) RFCs
D) None of the above.
Answer: C
Diff: 2 Page Ref: 76
TYU: 19e
89) TCP/IP is dominant at the layer(s). A) physical
B) internet
C) Both A and B
D) Neither A nor B
Answer: B
Diff: 2 Page Ref: 76
TYU: 19f
90) TCP/IP is dominant at the layer(s).
A) data link
B) transport
C) Both A and B
D) Neither A nor B
Answer: B
Diff: 2 Page Ref: 76
TYU: 19f

- 91) TCP/IP is dominant at the \_\_\_\_\_ layer(s).
- A) transport
- B) internet
- C) Both A and B
- D) Neither A nor B

Answer: C

Diff: 2 Page Ref: 76

TYU: 19f

- 92) Which of the following is more dominant in its layers of dominance?
- A) TCP/IP.
- B) OSI.
- C) Both of the above are about equally dominant.

Answer: B

Diff: 2 Page Ref: 76

TYU: 19g

- 93) Which standards architecture is dominant at the application layer?
- A) OSI.
- B) TCP/IP.
- C) Neither A nor B

Answer: C

Diff: 3 Page Ref: 76-77

TYU: 20a

- 94) Almost all applications, regardless of what standards architecture they come from, can run over TCP/IP standards at the internet and transport layers.
- A) True.
- B) False.

Answer: A

Diff: 2 Page Ref: 77

TYU: 20b

- 95) Which layer(s) of the hybrid TCP/IP—OSI standards architecture normally use(s) OSI standards?
- A) Data link.
- B) Transport.
- C) Both A and B
- D) Neither A nor B

Answer: A

Diff: 2 Page Ref: 77

TYU: 21a

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96) Which layer(s) of the hybrid TCP/IP—OSI standards architecture normally use(s) TCP/IP standards?  A) Data link. B) Transport. C) Both A and B D) Neither A nor B Answer: B Diff: 2 Page Ref: 77 TYU: 21b
97) Wireless LAN transmission normally is governed by standards.  A) TCP/IP  B) OSI  C) Neither A nor B  D) Both A and B  Answer: B  Diff: 3 Page Ref: 77-78  TYU: 21c
98) Switched WAN transmission is governed by standards.  A) TCP/IP  B) OSI  C) Both A and B  D) Neither A nor B  Answer: B  Diff: 2 Page Ref: 77-78  TYU: 21d
99) Novell NetWare servers traditionally used standards.  A) TCP/IP  B) OSI C) IPX/SPX D) AppleTalk E) SNA Answer: C Diff: 3 Page Ref: 77-78 TYU: 22a
100) IBM mainframes traditionally used internetworking standards.  A) TCP/IP  B) OSI  C) IPX/SPX  D) AppleTalk  E) SNA  Answer: E  Diff: 3 Page Ref: 78  TYU: 22b