## **Business Data Networks and Security 9th Edition Panko Test Bank**

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## **Business Data Networks and Security, 9e** (Panko) Chapter 2 Network Standards

1) Network standards are also called protocols.  Answer: TRUE
2) Standards govern
A) semantics
B) syntax
C) Both A and B
D) Neither A nor B
Answer: C
3) The meaning of a message is referred to as the message's
A) protocol
B) order
C) value
D) semantics
Answer: D
4) How a message is organized is its
A) syntax
B) semantics
C) order
D) Both A and B
Answer: A
5) In HTTP, a server may initiate an interaction with the client.
Answer: FALSE
6) Host P transmits a SYN 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
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

8) 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 RST segment  D) None of the above  Answer: D
9) A sending host will retransmit a TCP segment if  A) it receives an ACK segment  B) it receives a NAC segment  C) RPT  D) None of the above  Answer: D
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
11) After the side wishing to close a TCP connection sends a FIN segment, it will
<ul><li>12) Which of the following is <i>not</i> one of the three general parts of messages?</li><li>A) Address field.</li><li>B) Header.</li><li>C) Data field.</li><li>D) Trailer.</li><li>Answer: A</li></ul>
13) The contains the content being delivered by a message.  A) address field  B) header  C) data field  D) trailer  Answer: C
14) The header is defined as everything that comes before the data field.  Answer: TRUE
15) Messages always have data fields.  Answer: FALSE

16) The trailer is defined as everything that comes after the data field.  Answer: TRUE
17) Most messages have trailers. Answer: FALSE
18) Headers usually are divided into fields. Answer: TRUE
19) "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
20) Ethernet addresses are A) 32 bits long B) 48 bits long C) 128 bits long D) None of the above Answer: B
21) Ethernet addresses are long. A) 4 octets B) 6 octets C) 32 octets D) 48 octets Answer: B
22) read(s) the destination MAC 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
23) If the destination host finds an error in an Ethernet frame, it  A) sends back a NAK  B) retransmits the frame  C) Both A and B  D) Neither A nor B  Answer: D

24) Ethernet does A) error detection B) error correction C) Both A and B D) Neither A nor B Answer: A
25) Ethernet detects errors but does not correct them. Therefore, Ethernet is reliable. Answer: FALSE
26) In an IP header, the first bit in the second row is bit  A) 0  B) 31  C) 32  D) None of the above Answer: C
27) How long are IPv4 addresses? A) 32 octets. B) 48 bits. C) 20 octets. D) None of the above Answer: D
28) How long are IPv4 addresses? A) 4 octets. B) 6 octets. C) 20 octets. D) 32 octets. Answer: A
29) Routers make forward decisions based on a packet's source IP address. Answer: FALSE
30) Routers make packet forwarding decisions based on a packet's  A) source IP address B) destination IP address C) Both A and B Answer: B
31) IP is reliable. Answer: FALSE
32) IP detects errors but does not correct them. Therefore, IP is reliable. Answer: FALSE

33) To handle internetwork transmission control tasks that IP cannot handle, the IETF created TCP. Answer: TRUE
34) TCP messages are called A) frames B) fragments C) packets D) None of the above Answer: D
35) One-bit fields are called fields. A) binary B) flag C) ACK D) None of the above Answer: B
36) If someone says that a 1-bit flag is set, this means that it is given the value  A) 0  B) 1  C) Either A or B  D) Neither A nor B  Answer: B
37) If the ACK bit is set, the acknowledgement number field MUST have a value. Answer: TRUE
38) Which of the following has a header checksum field? A) TCP. B) UDP. C) Both A and B D) Neither A nor B Answer: C
39) 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

40) 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
Allswer. A
41) On a client, ephemeral port numbers indicate  A) applications
B) connections with servers
C) Both A and B
D) Neither A nor B
Answer: B
42) The range 1024 to 4999 is the usual range for port numbers A) well-known B) ephemeral
C) Both A and B
Answer: B
43) 6,000 is in the range for port numbers.  A) well-known  B) or homograf
B) ephemeral
C) Both A and B D) Neither A nor B
Answer: D
Thiswer. D
44) An IP address, a colon, and a port number constitute a(n)  A) well-known port number
B) ephemeral port number
C) connection D) socket
,
Answer: D
45) The application layer standard always is HTTP. Answer: FALSE
46) Which of the following layers has the most standards?
A) Data link.
B) Internet.
C) Transport.
D) Application.
Answer: D

<ul><li>47) Which layer has more standards?</li><li>A) Internet.</li><li>B) Application.</li><li>C) Both of the above have about the same number of standards.</li><li>Answer: B</li></ul>
<ul> <li>48) At which layer would you find standards for requesting videos from a video sharing site such as YouTube?</li> <li>A) Application.</li> <li>B) Transport.</li> <li>C) Internet.</li> <li>D) None of the above Answer: A</li> </ul>
<ul><li>49) 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) None of the above Answer: A</li></ul>
50) Nearly all application standards are simple, like HTTP. Answer: FALSE
51) In HTTP, most response message header fields consist of a keyword, an equal sign, and the value for the keyword.  Answer: FALSE
52) In HTTP, the end of a header field is indicated by a  A) byte position  B) CRLF  C) colon  D) blank line  Answer: B
53) An HTTP request message usually has a A) header B) data field C) Both A and B D) Neither A nor B Answer: A

54) An HTTP response message usually has a  A) trailer  B) data field  C) Both A and B  D) Neither A nor B  Answer: A
55) Converting application messages into bits is called  A) encapsulation B) encryption C) encoding D) conversion Answer: C
<ul><li>56) At what layer is encoding done?</li><li>A) Application.</li><li>B) Transport.</li><li>C) Internet.</li><li>D) None of the above</li><li>Answer: A</li></ul>
57) 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
58) How many bytes will it take to transmit "Can you hear me now?" without the quotation marks?  A) 5 B) 6 C) 10 D) None of the above Answer: D
59) Binary counting usually begins at 1. Answer: FALSE
60) In binary, 13 is 1101. What is 14? A) 1110 B) 1111 C) Neither A nor B Answer: A
61) If you have a field with N bits, you can represent N <sup>2</sup> items.  Answer: FALSE

62) A 5-bit field can represent alternatives.  A) 8 B) 16 C) 32 D) 64 Answer: C
63) Increasing an alternatives field length by one bit always doubles the number of alternatives it can represent.  Answer: TRUE
64) A 7-bit field can represent alternatives.  A) 14 B) 49 C) 128 D) 256 Answer: C
65) To represent 65 alternatives, your alternatives field would have to be bits long.  A) 5 B) 6 C) 7 D) 8 Answer: C
66) The electrical signal generated by a microphone is called a(n) signal.  A) binary B) digital C) analog D) Either A or B Answer: A
67) A codec A) encodes voice signals into analog signals B) encodes voice signals into binary signals C) compresses the signal D) Both B and C Answer: A
68) is placing a message in the data field of another message.  A) Encryption B) Vertical communication C) Layering D) Encapsulation Answer: D

69) 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
70) After the data link layer process does encapsulation, it passes the IP packet to thelayer process.  A) physical B) internet C) transport D) None of the above Answer: A
71) Which layer process does <i>not</i> do encapsulation when an application layer process transmits a message?  A) Physical.  B) Data link.  C) Internet.  D) All do encapsulation.  Answer: A
72) Network standards architectures break the standards functionality needed for communication into layers and define the functions of each layer.  Answer: TRUE
73) 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
74) 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. Answer: FALSE
<ul><li>75) What is the dominant network standards architecture in most real firms today?</li><li>A) OSI.</li><li>B) TCP/IP.</li><li>C) Neither A nor B</li><li>Answer: C</li></ul>

<ul><li>76) Which of the following is a standards agency for OSI?</li><li>A) IETF.</li><li>B) ITU-T.</li><li>C) Both A and B</li><li>D) Neither A nor B</li><li>Answer: B</li></ul>
<ul> <li>77) Which of the following is a network standards architecture?</li> <li>A) ISO.</li> <li>B) OSI.</li> <li>C) Both A and B</li> <li>D) Neither A nor B</li> <li>Answer: B</li> </ul>
78) OSI is dominant at the layer. A) physical B) internet C) Both A and B D) Neither A nor B Answer: A
79) OSI is dominant at the layer. A) data link B) transport C) Both A and B D) Neither A nor B Answer: A
80) OSI is dominant at the layer. A) internet B) transport C) Both A and B D) Neither A nor B Answer: D
<ul><li>81) Which of the following is an architecture?</li><li>A) IP.</li><li>B) TCP.</li><li>C) Both A and B</li><li>D) Neither A nor B</li><li>Answer: D</li></ul>

<ul><li>82) Which of the following is a standard?</li><li>A) TCP/IP.</li><li>B) IP.</li><li>C) Both A and B</li><li>D) Neither A nor B</li><li>Answer: B</li></ul>
83) Which of the following is a standards agency for TCP/IP? A) ITU-T. B) IETF. C) OSI. D) None of the above Answer: B
84) TCP/IP became dominant in corporations primarily because of A) its use on the Internet B) its relatively simple standards, which led to low costs C) a government mandate D) All of the above Answer: B
85) Most IETF documents are called A) official internet standards B) TCP/IP standards C) RFCs D) None of the above Answer: B
86) TCP/IP is dominant at the layer(s). A) physical B) internet C) Both A and B D) Neither A nor B Answer: B
87) 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

88) TCP/IP is dominant at the layer(s). A) physical B) data link C) Both A and B D) Neither A nor B Answer: D
89) Which standards architecture is dominant at the application layer? A) OSI. B) TCP/IP. C) IEEE. D) None of the above Answer: D
90) Almost all applications, regardless of what standards architecture they come from, can run over TCP/IP standards at the internet and transport layers.  Answer: TRUE
91) 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
92) 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
93) Wireless LAN transmission normally is governed by standards.  A) OSI B) TCP/IP C) Both A and B D) Neither A nor B Answer: A
94) Switched WAN transmission is governed by standards.  A) OSI B) TCP/IP C) Both A and B D) Neither A nor B Answer: A

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95) The OSI rollback point. A) application B) presentation C) session D) None of the above Answer: C	layer allows application communication to be restarted at the last	
96) The OSI computers. A) application B) presentation C) session D) None of the above Answer: B	layer is designed to handle data formatting differences between two	
97) The OSI A) application B) presentation C) session D) None of the above Answer: A	layer is designed to handle compression and encryption for applications.	
98) 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  C) Both A and B  D) Neither A nor B  Answer: B		
99) Which of the following is NOT an OSI layer name? A) Data link. B) Internet. C) Session. D) Presentation. Answer: C		
100) In OSI, the preser A) 7 B) 6 C) 5 D) None of the above Answer: B	ntation layer is Layer	