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Business Data Networks and Telecommunications, 9e (Panko) Chapter 2 Network Standards

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) it receives an RPT segment. 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
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
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.

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 MAC addresses are A) 32 bits long B) 48 bits long C) 128 bits long D) none of the above Answer: B
21) Ethernet MAC addresses arelong. 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

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 Answer: FALSE
35) One-bit fields in headers are called fields. A) digital 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

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 nu	ımbers
A) well-known	
B) ephemeral	
C) both A and B	
Answer: B	
43) 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	
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	
47) Which layer has more standards?	
A) internet	
B) application	
C) Both of the above have about the same number of standards.	
Answer: B	

48) 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
 49) At which layer would you find file transfer protocol standards for downloading files? A) application B) transport C) internet D) none of the above Answer: A
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: B

55) Converting application messages into bits is called A) encapsulation B) encryption C) encoding D) conversion Answer: C
56) At what layer is encoding done? A) application B) transport C) internet D) none of the above Answer: A
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 ² 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: C
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) Nesting 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 the _____layer process.
- A) physical
- B) internet
- C) transport
- D) none of the above

Answer: A

- 71) Which layer process does not 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

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

Answer: C

- 76) 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

 77) 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
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
81) Which of the following is an architecture? A) IP B) TCP C) both A and B D) neither A nor B Answer: D
82) Which of the following is a standard? A) TCP/IP B) IP C) both A and B D) neither A nor B Answer: B

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 corpor A) its use on the Internet B) its relatively simple standards, which C) a government mandate D) all of the above Answer: B	<u> </u>	
85) Most IETF documents are calledA) official internet standards B) TCP/IP standards C) RFCs D) none of the above Answer: C		
86) TCP/IP is dominant at theA) physical B) internet C) both A and B D) neither A nor B Answer: B	_ layer.	
87) TCP/IP is dominant at theA) data link B) transport C) both A and B D) neither A nor B Answer: B	_ layer.	
88) TCP/IP is dominant at theA) physical B) data link C) both A and B D) neither A nor B Answer: D	_ layer.	

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

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: B	layer is designed to handle compression and encryption for applications.
A) to convert between	file formats ta file standards used by multiple applications
99) Which of the follow A) data link B) internet C) session D) presentation Answer: C	wing is NOT an OSI layer name?
100) In OSI, the preser A) 7 B) 6 C) 5 D) none of the above Answer: B	ntation layer is Layer