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

| 1) Internet standards are published as |
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| 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 |
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| 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 |
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| 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 |
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| 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 |
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| 6) A message's semantics is its |
| 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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| 7) A message's syntax is its . |
| 7) A message's syntax 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: D |
| A) protocol B) message order C) meaning D) structure Answer: D Diff: 1 |
| A) protocol B) message order C) meaning D) structure Answer: D Diff: 1 Question: 3e |
| A) protocol B) message order C) meaning D) structure Answer: D Diff: 1 Question: 3e Objective: Provide the definitions of network standards and protocols, message syntax, |
| A) protocol B) message order C) meaning D) structure Answer: D Diff: 1 Question: 3e |

| 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. Application |
| 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 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 |
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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 |
| Classification. Application |
| 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 Objectives Discuss message and single control and in HTTP and TCP |
| Objective: Discuss message ordering in general and in HTTP and TCP. |
| Classification: Application |
| 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 |
| 10) A |
| 18) A message always has a |
| A) header B) details field |
| 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 |
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| 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 |

| 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 |
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| 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 |
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| 26) In IP, the first bit in the second row is |
| A) 0 |
| B) 31 |
| C) 32 |
| D) 63 |
| |
| Answer: C |
| Diff: 3 |
| Question: 7a |
| Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP |
| segments, UDP datagrams, and HTTP request and response messages. |
| Classification: Application |

- 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

| 30) IP is |
|--|
| 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 |
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| 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 |
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| |
| 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 Question: 9a |
| A) port B) flag C) ACK D) binary Answer: B Diff: 1 Question: 9a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP |
| A) port B) flag C) ACK D) binary Answer: B Diff: 1 Question: 9a |
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| A) port B) flag C) ACK D) binary Answer: B Diff: 1 Question: 9a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. |
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| A) port B) flag C) ACK D) binary Answer: B Diff: 1 Question: 9a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 33) If someone says that a 1-bit flag is set, this means that it is given the value |
| A) port B) flag C) ACK D) binary Answer: B Diff: 1 Question: 9a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 33) If someone says that a 1-bit flag is set, this means that it is given the value A) 0 |
| A) port B) flag C) ACK D) binary Answer: B Diff: 1 Question: 9a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 33) 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 |
| A) port B) flag C) ACK D) binary Answer: B Diff: 1 Question: 9a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 33) If someone says that a 1-bit flag is set, this means that it is given the value A) 0 B) 1 |
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| A) port B) flag C) ACK D) binary Answer: B Diff: 1 Question: 9a Objective: Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages. Classification: Concept 33) 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 Diff: 1 Question: 9b |

| 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 |
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| 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 |
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| 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 |
| 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 |
| , and the second |
| 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 |
| 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. |
| 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. |
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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) 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 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 |
| Classification. Concept |
| 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 |
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| |
| 52) An HTTP response message usually has a |
| 52) An HTTP response message usually has a A) trailer |
| 52) An HTTP response message usually has a A) trailer B) data field |
| 52) An HTTP response message usually has a A) trailer B) data field C) both A and B |
| 52) An HTTP response message usually has a A) trailer B) data field C) both A and B D) neither A nor B |
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| 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 |
| 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 |
| 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 |

58) Convert a decimal number 15 to the binary number.

| 62) To represent 65 alternatives, your alternatives field would have to be at least | bits |
|---|------|
| long. | |
| $A)$ $\overline{5}$ | |
| 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 | |
| | |
| 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 |