

The process-to-process delivery of the entire message is the responsibility of the \_\_\_\_\_ layer.

A Network

B Transport

C Application

D Physical

In the OSI model, as a data packet moves from the lower to the upper layers, headers are \_\_\_\_\_.

A Added

B Removed

C Rearranged

D Modified

When data are transmitted from device A to device B, the header from A's layer 4 is read by B's \_\_\_\_\_ layer.

A Physical

B Transport

C Application

D None of the above

When a host on network A sends a message to a host on network B, which address does the router look at?

A Port

B Logical

C Physical

D None of the above

In the OSI model, what is the main function of the transport layer?

A Node-to-node delivery

B Process-to-process message delivery

C Synchronization

D Updating and maintenance of routing tables

Mail services are available to network users through the \_\_\_\_\_ layer.

A Data link

B Physical

C Transport

D Application

An ARP reply is normally \_\_\_\_\_.

A Broadcast

B Multicast

C Unicast

D None of the above

For Stop-and-Wait ARQ, for 10 data packets sent, \_\_\_\_\_ acknowledgments are needed.

**A** Exactly 10

**B** Less than 10

**C** More than 10

**D** None of the above



Which error detection method consists of just one redundant bit per data unit?

**A** Simple parity check

**B** Two-dimensional parity check

**C** CRC

**D** Checksum

UDP and TCP are both \_\_\_\_\_ layer protocols.

A Data link

B Network

C Transport

D None of the above

ICMP is a \_\_\_\_\_ layer protocol.

A Data link

B Transport

C Network

D None of the above

The \_\_\_\_\_ layer changes bits into electromagnetic signals.

**A** Physical

**B** Data link

**C** Transport

**D** None of the above

An ARP request is normally \_\_\_\_\_.

**A** Broadcast

**B** Multicast

**C** Unicast

**D** None of the above

In the OSI model, when data is transmitted from device A to device B, the header from A's layer 5 is read by B's \_\_\_\_\_ layer.

A Physical

B Transport

C Session

D Presentation

Which error detection method uses one's complement arithmetic?

A Simple parity check

B Two-dimensional parity check

C CRC

D Checksum

Communication in TCP is \_\_\_\_\_.

A Simplex

B Half-duplex

C Full-duplex

D None of the above



An ARP request is normally \_\_\_\_\_.

**A** Broadcast

**B** Multicast

**C** Unicast

**D** None of the above

Frequency of failure and network recovery time after a failure are measures of the \_\_\_\_\_ of a network.

A Performance

B Reliability

C Security

D Feasibility

A television broadcast is an example of \_\_\_\_\_ transmission.

**A** Simplex

**B** Half-duplex

**C** Full-duplex

**D** Automatic

UDP is called a \_\_\_\_\_transport protocol.

A Connectionless, reliable

B Connection-oriented, unreliable

C Connectionless, unreliable

D None of the above

TCP is a \_\_\_\_\_ protocol.

**A** Connection-oriented

**B** Connectionless

**C** Both (A) and (B)

**D** None of the above

ARQ stands for \_\_\_\_\_.

**A** Automatic repeat quantization

**B** Automatic repeat request

**C** Automatic retransmission request

**D** Acknowledge repeat request

TCP is a(n) \_\_\_\_\_ transport protocol.

A Unreliable

B Best-effort delivery

C Reliable

D None of the above

Communication between a computer and a keyboard involves \_\_\_\_\_ transmission.

**A** Simplex

**B** Half-duplex

**C** Full-duplex

**D** Automatic



In the OSI model, encryption and decryption are functions of the \_\_\_\_\_ layer.

A Transport

B Session

C Presentation

D Application

In cyclic redundancy checking, what is the CRC?

A The divisor

B The quotient

C The dividend

D The remainder

HDLC is an acronym for \_\_\_\_\_.

**A** High-duplex line communication

**B** High-level data link control

**C** Half-duplex digital link combination

**D** Host double-level circuit

IGMP is \_\_\_\_\_ protocol.

A An error reporting

B A group management

C A transmission

D None of the above