In the layered approach to Internet software, what is the primary responsibility of the application layer?

- A. Formatting messages for transmission
- B. Translating mnemonic addresses to IP addresses
- C. Dividing long messages into segments
- D. Sending and receiving messages over the Internet

Answer: D

How does the transport layer ensure the proper transmission of messages over the Internet?

- A. By translating human-readable addresses into IP addresses
- B. By dividing messages into small segments
- C. By adding sequence numbers to message segments
- D. By routing packets to their final destinations

Answer: C

What is the primary role of the network layer in Internet communication?

- A. Dividing messages into segments
- B. Adding sequence numbers to message segments
- C. Deciding the direction of packet forwarding
- D. Transmitting individual packets

Answer: C

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How does the link layer contribute to the transmission of packets in the Internet?

- A. By routing packets to their final destinations
- B. By adding sequence numbers to message segments
- C. By dealing with communication details specific to the network
- D. By extracting message segments from packets

Answer: C

What is the purpose of assigning unique port numbers in Internet communication?

- A. To translate mnemonic addresses to IP addresses
- B. To divide long messages into segments
- C. To determine the direction of packet forwarding
- D. To specify which unit within the application layer should receive a message

Answer: D

Which protocol is commonly used for DNS lookups and VoIP due to its efficiency?

A. SMTP

B. HTTP

C. UDP

D. TCP

Answer: C

What is the primary task of IP (Internet Protocol) in the network layer?

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- A. Dividing messages into segments
- B. Translating mnemonic addresses to IP addresses
- C. Routing packets through the Internet
- D. Adding sequence numbers to message segments

Answer: C

What does a hop count value in IP packets determine?

- A. The number of packets transmitted simultaneously
- B. The number of routers in the Internet
- C. The number of times a packet can be forwarded
- D. The time it takes for a packet to reach its destination CAMP

Answer: C

What is the role of a proxy server in a network environment?

- A. It forwards messages between clients and servers.
- B. It communicates directly with servers to gather information.
- C. It acts as an intermediary between clients and servers to protect client information.
- D. It monitors the activities of firewalls within the network.

Answer: C

What is one of the primary functions of network auditing software?

A. To collect information about network traffic

B. To communicate with neighboring network layers

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C. To detect and remove known viruses from the network

D. To identify problems in the network before they escalate

Answer: D

In network security, what is the role of antivirus software?

A. To forward packets between routers

B. To provide a secure connection to the Internet

C. To detect and remove known viruses and infections

D. To act as a proxy server for client-server communication

Answer: C

How does a digital signature contribute to message authentication?

A. It encrypts the entire message for security.

B. It adds a unique port number to the message.

C. It indicates the sender's identity and authenticity.

D. It decrypts the message to verify its contents.

Answer: C

What is the significance of appending a hop count or time to live value to an IP packet?

A. It determines the sender's identity.

B. It specifies the order of packet transmission.

C. It limits the number of times a packet can be forwarded.

D. It measures the time it takes for a packet to reach its destination.

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Answer: C

In the context of public-key encryption, what is a digital signature?

- A. An encrypted message sent to the recipient
- B. An attachment that verifies the sender's identity
- C. A unique port number added to the message
- D. An encrypted version of the message itself

Answer: B

What is the primary goal of a certificate authority in network security?

- A. To maintain a network's forwarding table
- B. To prevent unauthorized access to a network
- C. To authenticate the identity of network users
- D. To update antivirus software on network devices

Answer: C

In the context of network security, what does the term "effective" refer to?

- A. The ability to execute an algorithm
- B. The efficiency of data transmission
- C. The order of execution in algorithms
- D. The speed of network auditing software

Answer: A

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What distinguishes an algorithm from a sequence of steps?

- A. The ability to execute unambiguous steps
- B. The inclusion of an ordered structure
- C. The presence of parallel processing
- D. The use of flip-flops in the process

Answer: B

What is the primary characteristic of an algorithm?

- A. The inclusion of parallel processing steps
- B. The ability to execute ambiguous steps
- C. The provision of well-established sequence
- D. The use of unambiguous, executable steps

Answer: D

Which layer of the layered approach to Internet software deals with directing the segments through the Internet?

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- A. Application layer
- B. Transport layer
- C. Network layer
- D. Link layer

Answer: C

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What is the primary responsibility of the transport layer in Internet communication?

- A. Routing packets through the Internet
- B. Translating human-readable addresses into IP addresses
- C. Dividing long messages into segments
- D. Ensuring proper formatting of messages

Answer: C

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