Which of the following is an example of a client-server application?

A) Skype

B) BitTorrent

C) Email

D) Google Search

In the client-server model, the server:

A) Is always active and waiting for requests

B) Contacts the client to initiate communication

C) Is generally offline until contacted

D) Is controlled by another server

Which layer handles the communication between applications on different hosts?

A) Data Link Layer

B) Application Layer

C) Network Layer

D) Physical Layer

HTTP relies on which underlying transport protocol?

A) UDP

B) IP

C) TCP

D) SMTP

Which protocol is used primarily for web browsing?

A) FTP

B) HTTP

C) SMTP

D) POP

In HTTP, a web page consists of:

A) A single HTML file only

B) Multiple objects like HTML files, images, and scripts

C) Only images and text

D) Scripts only

An HTTP response status code of 404 indicates:

A) Success

B) Moved Permanently

C) Not Found

D) Bad Request

Which email protocol is used to send emails from a client to a server?

A) IMAP

B) POP3

C) SMTP

D) HTTP

In the HTTP client-server model, the client is typically:

A) A server in a data center

B) A browser requesting a web page

C) An email server

D) A router

What does SMTP stand for?

A) Secure Mail Transfer Protocol

B) Simple Mail Transfer Protocol

C) Simple Messaging Transfer Protocol

D) Simple Mail Transmission Protocol

The GET method in HTTP is used to:

A) Send data to a server

B) Retrieve data from a server

C) Delete data on the server

D) Modify data on the server

Which of the following is an example of a peer-to-peer application?

A) Email

B) HTTP

C) BitTorrent

D) FTP

In HTTP, a status code of 200 indicates:

A) Success

B) Not Found

C) Bad Request

D) Unauthorized

SMTP is mainly used to:

A) Download emails

B) Upload files to a server

C) Send emails

D) Stream video content

Which method is used in HTTP for sending form data as part of the request body?

A) GET

B) POST

C) PUT

D) DELETE

In the HTTP protocol, cookies are used for:

A) Storing browser cache

B) Tracking sessions and user information

C) Encrypting data in transit

D) Delivering images

A non-persistent HTTP connection:

A) Stays open for multiple requests

B) Closes after a single request and response

C) Requires a new server for each request

D) Always keeps data encrypted

The term "stateless" in HTTP means:

A) Each request is independent of previous ones

B) HTTP maintains user session data

C) HTTP can store cookies

D) The server maintains state about users

Which of the following is NOT a transport layer protocol?

A) UDP

B) TCP

C) SMTP

D) Both A and B

Which protocol is commonly used to access email on a server?

A) FTP

B) IMAP

C) HTTP

D) SMTP

The POST method in HTTP is used when:

A) Retrieving data from a server

B) Sending large amounts of data to the server

C) Deleting data on the server

D) Modifying data on the server

Persistent HTTP connections reduce load by:

A) Allowing multiple requests over a single connection

B) Closing the connection after each object

C) Sending one object per connection

D) Using UDP for data transfer

An email client that downloads messages to a local machine is likely using:

A) POP3

B) IMAP

C) SMTP

D) HTTP

Which type of architecture is used when clients both provide and consume resources?

A) Client-server

B) Peer-to-peer

C) Web-based

D) Email-based

An HTTP request message includes:

A) A status code

B) A URL and a method like GET or POST

C) Only binary data

D) The server's IP address only

Cookies are stored:

A) On the server

B) On the client's computer

C) In the network

D) In DNS

What happens after an HTTP request is completed in non-persistent HTTP?

A) The connection stays open

B) The connection is closed

C) The data is deleted

D) The request is resent

SMTP commonly uses which port?

A) 25

B) 80

C) 110

D) 443

HTTP commonly uses which port?

A) 25

B) 80

C) 110

D) 443

What is the function of a web cache?

A) To store web page copies close to users

B) To encrypt web pages

C) To host websites

D) To serve as an alternative to DNS

Which HTTP method is used to retrieve only headers from the server?

A) GET

B) POST

C) HEAD

D) DELETE

HTTP operates as a stateless protocol

 True

False

Non-persistent HTTP keeps the connection open for multiple requests.

True

False

Cookies allow websites to track user sessions.

True

False

 In HTTP, a 404 status code means "Not Found."

True

False

SMTP is used to retrieve emails from the server.

True

False

In the client-server model, the server typically has a fixed IP address.

True

False

Persistent HTTP allows multiple objects to be sent over a single connection.

True

False

HTTP uses UDP as its transport layer protocol.

True

False

The POST method in HTTP can be used to submit form data.

True

False

A peer-to-peer network model allows direct communication between clients.

True

False

IMAP is a protocol used for sending emails.

True

False

HTTP is commonly used for web browsing.

True

False

True: An HTTP request can be either a GET or POST.

True

False

SMTP is used for file transfer on the web.

True

False

The client-server model is commonly used in web applications.

True

False

Web caches can reduce the load on origin servers.

True

False

In a stateless protocol, the server keeps track of client states

True

False

HTTP requests and responses use headers to convey additional information.

True

False

Cookies are stored on the client's device.

True   False

Persistent connections are only available in HTTP/2.

True   False