

Protocols

A protocol is a set of rules that is used to communicate applications to each other.

OR

A protocol is the interface required for communicating the different applications.

Examples

- HTTP
- TCP/IP
- FTP
- SMTP
- TELNET

HTTP

- HTTP Stands for Hyper Text Transfer Protocol.
- It is used to access data on the www.
- It uses one TCP connection on well known port-80
- It has two types of messages:
 - Request
 - Response
- It is used to transport HTML pages from web server to web browsers.
- HTTP transaction is divided into four steps:
 - The browser opens a connection.
 - The browser sends a request to the server.
 - The server sends a response to the browser.
 - The connection is closed.

TCP/IP

- TCP/IP stands for Transmission Control Protocol/ Internet Protocol.
- It is reliable connection oriented protocol.
- TCP/IP is a two-layer program.
 - The higher layer (Transmission Control Protocol) manages the assembling of a message or file into smaller packets that are transmitted over the Internet and received by a TCP layer that reassembles the packets into the original message.
 - The lower layer (Internet Protocol) handles the address part of each packet so that it gets to the right destination.

UDP

- UDP stands for User Datagram Protocol
- It is unreliable connection less protocol.
- It is used to control the management of application level services between computers.

- It is used for transport by some applications, which must provide their own reliability.

FTP

- FTP stands for File Transfer Protocol.
- It is used to transfer the files over networks.
- FTP uses TCP to create a virtual connection for control information and then creates a separate TCP connection for data transfers.
- When using the FTP, the user performs some or all of the following operations:
 - Connect to a remote host.
 - Navigate and manipulate the directory structure.
 - List files available for transfer.
 - Define the transfer mode, transfer type, and data structure.
 - Transfer data to or from the remote host.
 - Disconnect from the remote host.

Simple Mail Transfer Protocol (SMTP)

- SMTP stands for Simple Mail Transfer Protocol.
- SMTP is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks.

Telnet

- Telnet lets you remotely log into another system and browse files and directories on that remote system.

Questions asked in semester paper

Question-Explain various protocols governing web? Also explain Web Team?

[2017-2018]

Question-What do you mean by web projects? Describe the various protocol governing web projects.

[2015-2016]

Question-What do you mean by protocol? Provide the name those protocols, which help in web and explain the working of those protocols.

[2014-2015]

Question-Describe in brief the growth of the web technology. Explain the protocols governing web.

[2013-2014]

Question-When you download a file using HTTP and FTP, which one is normally used? Why?

[2012-2013]

Question-Differentiate between TCP and UDP.

[2012-2013]

Question-Discuss various protocols governing web.

[2012-2013]

Question-What are protocols? Explain the working of CSMA/CD protocol.

[2011-2012]

- Question-Explain the use and working of FTP tool on the Internet in brief. [2011-2012]
- Question-What do you mean by MIME, SMTP and IMAP? [2011-2012]
- Question-What are protocols? Describe the various layers with functions and protocol in TCP/IP and OSI. Differentiate between OSI model and TCP/IP. [2011-2012]
- Question-Explain the various application protocols for Internet. [2010-2011]
- Question-What are protocols? Describe the various layers with functions and protocol in TCP/IP and compare with OSI model. [2010-2011]
- Question-What is Remote login and TELNET? Explain the working and use of TELNET tool on the Internet in brief. [2010-2011]
- Question-Describe various protocols governing the web applications. [2006-2007]
- Question-What are protocols? What do they do? What allows any size computer to be able to send and receive through the Internet? [2005-2006]
- Question-What do you mean by protocol? Give the name of those protocols, which help in web and explain the working of those protocols. [2002-2003]