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16/SCI01/023

CSC 402

A). The **File Transfer Protocol** (**FTP**) is a standard [network protocol](https://en.m.wikipedia.org/wiki/Network_protocol" \o "Network protocol) used for the transfer of [computer files](https://en.m.wikipedia.org/wiki/Computer_file" \o "Computer file) between [a client and server](https://en.m.wikipedia.org/wiki/Client%E2%80%93server_model" \o "Client–server model) on a [computer network](https://en.m.wikipedia.org/wiki/Computer_network" \o "Computer network). FTP is built on a client-server model architecture using separate control and data connections between the client and the server.

B). The **Simple Mail Transfer Protocol** (**SMTP**) is a communication protocol for electronic mail transmission. SMTP is part of the application layer of the TCP/IP protocol. Using a process called "store and forward," SMTP moves your email on and across networks. It works closely with something called the Mail Transfer Agent (MTA) to send your communication to the right computer and email inbox.

C). The **Internet Protocol** (**IP**) is the principal communication protocol in the Internet protocol suite for relaying datagrams across network boundaries. Its routing function enables internetworking, and essentially establishes the Internet.

### D). UDP (User Datagram Protocol) is an alternative communications protocol to Transmission Control Protocol ([TCP](https://searchnetworking.techtarget.com/definition/TCP" \t "_top)) used primarily for establishing low-latency and loss-tolerating connections between applications on the internet. Both UDP and TCP run on top of the Internet Protocol (IP) and are sometimes referred to as UDP/IP or [TCP/IP](https://searchnetworking.techtarget.com/definition/TCP-IP" \t "_top). But there are important differences between the two. Where UDP enables process-to-process communication, TCP supports host-to-host communication. TCP sends individual packets and is considered a reliable transport medium; UDP sends messages, called [datagrams](https://searchnetworking.techtarget.com/definition/datagram" \t "_top), and is considered a best-effort mode of you communications.