PDU of Transport layer is called as a "Segment", PDU of network layer is called as a "Packet" & PDU of data link layer is called as a "Frame".

TCP/IP		TCP/IP
HTTP HTTPS Telnet FTP TFTP	5 - 7	Application
TCP / UDP	4	Transport
Router	3	Network
Bridge / Switch	2	Data Link
Hub	1	Physical

protocol

communication **protocol** is a system of rules that allow two or more entities of a communications system to

transmit information via any kind of variation of a physical quantity.

- The protocol defines the rules, syntax, semantics and synchronization of communication and possible error recovery methods.
- Protocols may be implemented by hardware, software, or a combination of both
 port

a **port** is a communication endpoint.

- At the software level, within an operating system, a port is a logical construct that identifies a specific process or a type of network service.
- A port number is a 16-bit unsigned integer, thus ranging from 0 to 65535

ephemeral port

ephemeral port - a short-lived transport protocol port for Internet Protocol (IP) communications.

- Ephemeral ports are allocated automatically from a predefined range by the IP stack software.
- An ephemeral port is typically used by the Transmission Control Protocol (TCP), User Datagram Protocol (UDP), as the port assignment for the client end of a client-server communication to a particular port (usually a well-known port) on a server
- The Internet Assigned Numbers Authority (IANA) suggests the range 49152 to 65535 for dynamic or private ports