**Question:**

1. In your own words, write a short paragraph describing the differences between the TCP and IP protocols.
2. Then, in your own words, describe the different roles between the TCP and IP protocols in Internet communication.

**Ans:**

The biggest difference between TCP and IP protocols is that TCP can guarantee the packet arrival, but IP can not.

* IP protocol means Internet protocol. There are two types of IP protocol - IPv4 and IPv6. IPv4 makes use of 32 bit memory. IPv4 uses one address format, and IPV6 uses another. IP protocol is less efficient in communication and host naming.
* TCP means Transmission Control Protocol. The TCP layer makes sure that there is a proper channel for the application layer. It provides connection based service. Process to process communication is used here.

In OSI model, it is classified by seven layers. From top to bottom is Application Layer, Presentation Layer, Session Layer, Transport Layer, Network Layer, Data Link Layer and Physical Layer, which Transport Layer is TCP and Network Layer is IP.  
TCP Protocols:

* Process naming
* Reliable communication
* Process-to-Process communication

IP Protocols:

* Host-to-Host Connection
* Unreliable communication
* Host naming scheme