1. The resources needed for communication between end systems are reserved for the duration of session between end systems in \_\_\_\_\_\_\_\_\_\_\_\_
2. Finding appropriate output for sending data is called as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. If traffic intensity is equal to one, it means that average \_\_\_\_\_\_\_\_\_ delay is \_\_\_\_\_\_\_\_
4. Differentiate between IP and MAC address (1 liner)

What are the propagation time and the transmission time for a 2.5-kbyte message (an e-mail) if the bandwidth of the network is 1 Gbps? Assume that the distance between the sender and the receiver is 12,000 km and that light travels at 2.4 × 108 m/s.

1. What Transport layer protocol will be used for critical information.
2. What would the Network layer do with the received packet from upper layer.
3. What advantages does TDM have over FDM in a circuit-switched network?