Q1. Define Traffic Intensity in Computer Network

The rate at which the traffic arrives in the queue, the transmission of the link and the nature of the arriving traffic defines the Traffic Intensity in Computer Network.

Let   
a – be the average rate at which the traffic arrives in the queue (packets/ second).

R – be the transmission rate (bits/ second).

L – be the bits that the packet contains.

Then

Traffic intensity – a\* L /R bits/ second

In a computer network, an entry router with a 200 Mbits link receives 200 packets per second and each packet size is 400 bytes. Is the system is stable?

Answer –

L = 400 \*8 bits

R = 200 \* 10^6 bits

a = 200 packets/sec