



**SAGAR INSTITUTE OF SCIENCE & TECHNOLOGY(SISTec)
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

TUTORIALS

BRANCH	CSE
SESSION	VI-1

NAME OF THE FACULTY: Dr. P.S. Chauhan
SUBJECT/CODE : Computer Network (CS-602)

UNIT-1

Q No.	QUESTIONS	Bloom's Taxonomy Level
1.	<p>Calculate the total time required transferring a 1.5MB file in the following cases, assuming a RTT of 80 ms, a packet size of 1 KB data, and an initial $2 \times \text{RTT}$ of “handshaking” before data is sent.</p> <p>(a) The bandwidth is 10Mbps, and data packets can be sent continuously.</p> <p>(b) The bandwidth is 10Mbps, but after we finish sending each data packet we must wait one RTT before sending the next.</p> <p>(c) The link allows infinitely fast transmit, but limits bandwidth such that only 20 packets can be sent per RTT.</p> <p>(d) Zero transmit time as in (c), but during the first RTT we can send one packet, during the second RTT we can send two packets, during the third we can send four = $2^3 - 1$, and so on.</p>	3 (Apply)