Academic Year: 2019-2020   **Batch: 2017-2021**

Faculty: Ms. A. Beulah   **Due Date: 13.8.19, 14.8.19, 15.8.19**

Exercise 7: SIMULATION OF CONGESTION CONTROL ALGORITHMS

1.   Write tcl scripts to simulate the different congestion control algorithms.

2.   a) Write tcl script to simulate:

1. Create 3 nodes and the links between the nodes as

    a. 0 → 1 10Mb 10 ms duplex link

    b. 1→2 2Mb 10 ms duplex link

2. Align the nodes properly

3. Setup a **TCP/Tahoe** connection over 0 and 2 and its flow id, window size, packet

4. Show the simulation in network animator and in trace file.

   b) Write tcl script to simulate:

1. Create 3 nodes and the links between the nodes as

    a. 0 → 1 10Mb 10 ms duplex link

    b. 1→2 2Mb 10 ms duplex link

2. Align the nodes properly

3. Setup a **TCP/Reno** connection over 0 and 2 and **mention the same flow id, window size, packet used for TCP/Tahoe**

4. Show the simulation in network animator and in trace file.

Analyze the two different congestion control algorithms.