

Computer Networks Fall 2018

Quiz – 2 Date: 29-10-2018

Roll no: _____

Q1. Host A and B are communicating over a TCP connection, and Host B has already received from A all bytes up through byte 120. Suppose Host A then sends two segments to Host B back-to-back. The first and second segments contain 80 and 40 bytes of data, respectively. In the first segment, the sequence number is 127, the source port number is 302, and the destination port number is 80. Host B sends an acknowledgment whenever it receives a segment from Host A.

- a. In the second segment sent from Host A to B, what are the sequence number, source port number, and destination port number?

- b. If the first segment arrives before the second segment, in the acknowledgment of the first arriving segment, what is the acknowledgment number, the source port number, and the destination port number?

- c. If the second segment arrives before the first segment, in the acknowledgment of the first arriving segment, what is the acknowledgment number?

Q2. Explain: TCP helps the overall network to have less congested traffic. Which features of the TCP provide this service? Briefly explain the working of these features.