## CS 372 Introduction to Computer Networks Self-Check Exercises: Lecture 18

1)	What are some tradeoffs for the implementation of RDT in TCP	
2)	<ul> <li>With a stop-and-wait implementation</li> <li>a. How long would it take to send five 1500-byte packets, subject to the following conditions:</li> <li>R = 20Mbps</li> <li>Network end-to-end time (after initial transmission) = 20 ms</li> <li>ACK packet L = 20 bytes</li> </ul>	
	b. What is the utilization?	
3)	For the situation in question 2, but with a pipelined implementation  a. How long would it take to send five 1500-byte packets? Assume the pipeline with accommodate 6000 bytes from sender to receiver at any given time.	i <b>11</b>
	b. What is the utilization?	

4) How does the receiver handle multiple incoming packets?	
5) What happens if the sender sends information faster than the receiver can process?	
6) <i>HostA</i> is sending fixed-size packets to remote <i>HostB</i> on a 100 Mbps link. Each pack length is 1200 bytes. The propagation delay is 1 ms.; the processing/queuing delays negligible. Given a sliding window of 12,000 bytes, and assuming no pipeline errors what is <i>HostA</i> 's utilization?	are