CS4392/5376: Computer Networks/Communication Networks Summer II 2021

Review #I Solution

Full name only: __

Release date: July 16th, 2021 (Friday)

127 and onwards.

•	Due date: July 21st, 2021 (Wednesday) before midnight, 11:59 PM Total 5 points	
	rue or False] The <i>alternating-bit</i> protocol is the same as the <i>GBN</i> protocol with a sender low size of I.	
	• True	[l pt]
	True or False] With the SR, it is possible for the sender to receive an ACK for a pacide of its current window.	
	• True	[l pt]
	True. Suppose the sender has a window size of 3 and sends packets 1, 2, 3 at t0. A the receiver ACKS 1, 2, 3. At t2 (t2 > t1) the sender times out and resends 1, 2, receiver receives the duplicates and re-acknowledges 1, 2, 3. At t4 the sender ACKs that the receiver sent at t1 and advances its window to 4, 5, 6. At t5 the se the ACKs 1, 2, 3 the receiver sent at t3. These ACKs are outside its window.	3. At t3 the receives the
byte and num	ost A and B are communicating over a TCP connection, and Host B has already receives up through byte 126. Suppose Host A then sends two segments to Host B back-to-b second segments contain 80 and 40 bytes of data, respectively. In the first segment, ber is 127, the source port number is 302, and the destination port number is 80. Ho owledgment whenever it receives a segment from Host A.	ack. The first the sequence
	a. In the second segment sent from Host A to B, what are the sequence number, source and destination port number?	port number
		[l pt]
	 In the second segment from Host A to B, the sequence number is 207, source po 302 and destination port number is 80. 	ort number is
	b. If the first segment arrives before the second segment, in the acknowledgement of the segment, what are the acknowledgment number, the source port number, and the desnumber?	
	number.	[l pt]
	 If the first segment arrives before the second, in the acknowledgement of the segment, the acknowledgement number is 207, the source port number is 80 and the port number is 302. 	
	c. If the second segment arrives before the first segment, in the acknowledgment of the segment, what is the acknowledgement number?	first arriving

• If the second segment arrives before the first segment, in the acknowledgement of the first arriving segment, the acknowledgement number is 127, indicating that it is still waiting for bytes

[lpt]