Quiz 4: October 30, 2014

Left Neighbor: _____

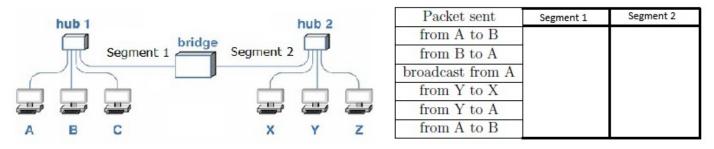
Right Neighbor: _____

This is a closed book quiz

CE80N Larrabee Fall '14

Name: _____

1. (3 points) In the picture below you see a bridge connecting Segment 1 and Segment 2 as well as a list of packets sent on the small LAN. After each of the packers is sent, what are the MAC addresses that the bridge will have learned is assigned to each segment? (For example, the answer for the first row should be an A listed under Segment 1, and nothing listed under Segment 2. The A for Segment 1 will appear in every row, because the bridge will never unlearn that.)



2. (7 points) Below is a small LAN including wired and wireless computers. Please give all pertinent addresses (just the addresses–I only drew the full packet for familarity) for as many packets as you need first, if Computer C sends a message to Computer A (4 points) and Second if Computer D sends to Computer X (3 points). For an Ethernet packet, give DA and SA, and for an 802.11 packet, give Addresses 1 through 3.

X	Wirele	ss "Cell"	Wire	less "Ce	HI" Y		
Access			С		Access Poi	nt 2	
		Address 2	Wirel	ess Clier	All as 4	Data or Payload	
2 Bytes 2 Bytes	6 Bytes	6 Bytes	6 Bytes	2 Bytes	6 Bytes	0 - 2312 Bytes	4 Bytes
	Destination Address	Source Address	Data or Payload				
56 Bits	8 Bits 48 Bits	48 Bits 16 Bits	Up to 1500 Bytes	32 Bits			

- (a) X to D:
- (b) C to B: