



Quiz 5: November 6, 2014

Left Neighbor: _____

Right Neighbor: _____

This is a closed book quiz



CE80N Larrabee Fall '14

Name: _____

You have been told your Computer's IP address is 129.6.16.35 /27.

1. **(1 point)** What is the dotted-decimal representation for your subnet mask?

1111 1111. 1111 1111. 1111 1111. 1110 0000
which is 255. 255. 255. 224

2. **(4 points)** What is your subnetwork's address? Give binary and dotted decimal.

1000 0001. 0000 1010. 0010 0000. 0010 0000/27
129.6.16.32/27

3. **(1 point)** What is the IP address of the lowest numbered IP address for a host in your network (binary and dotted decimal)?

Lowest IP:
1000 0001. 0000 1010. 0010 0000. 0010 0001/27
129.6.16.33/27

4. **2 point)** What is the IP address of the highest numbered IP address for a host in your network (binary and dotted decimal)?

Highest IP:
1000 0001. 0000 1010. 0010 0000. 0011 1110/27
129.6.16.62/27

5. **(2 points)** How many hosts are available to you in this network?

$2^5 - 1 = 31$