

Quiz 1  
Jan 14, 2016  
Computer Engineering 80N

Left Neighbor: \_\_\_\_\_

Right Neighbor: \_\_\_\_\_

Keep this side up on your desk until you are told to turn the page over.

This is a closed book quiz. No calculators. You can use the front for scratch paper.

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First Name

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Last Name

## CE 80N Quiz 1, Jan 14, 2016

1. (30 points) Fill in the missing values in the tables below.

Decimal	8-bit Binary	Hexadecimal
221		
141		
49		
	00011011	
	01011011	
	11000011	
		0xA5
		0x3F
		0x33

2. (12 points) Fill in the missing values in the tables below.

<b>4-bit binary number</b>	10100011	10100011	10100011	10100011
<b>4-bit mask</b>	11111111	11110000	11111000	00000000
<b>Bitwise AND of the above two</b>				

3. (8 points) The following bytes are transmitted over a cable. What should the value of the parity bit be, if it has **EVEN** parity?

Byte Value	Parity Bit
11110000	
10101010	
00000000	
00110010	