

Name: _____

CDS130 2015F001 Quiz 1 (30 minutes)

Q1. Conduct the following binary division with 8-bit unsigned numbers. Provide your result in binary.

110101010 / 00010011

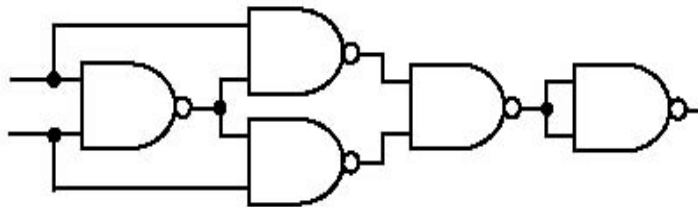
Q2. $(10B)_{16} = (?)_2$

Q3. Using the two's complement method, adding the following two 8-bit numbers. Convert result to its decimal equivalent.

1 0 0 0 1 1 1 0
+ 0 0 0 0 1 1 1 1

Q4. How many unique combinations of 1s and 0s are possible with 10 bits?

Q5. What logic gate is equivalent to the logic circuit shown below? Draw the logic gate.



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