COMP311 In-Class Problems 8	/ 21 / 25 Name:	
Question 1: Bitwise Operations ger. There are multiple correct a	s. Fill in the following blanks using answers for each question.	the options below. n is an inte-
First blank: AND, OR, XOR Second blank: n , $\neg n$, $0b000000$),0 <i>b</i> 11111.	
1.1. n		= n
1.2. n		= 0b000000
1.3. n		= 0b11111
Question 2: Address Calculation is the address of element 9?	on I have a 10-element integer array	whose base address is 20. What
Question 3: Size of Memory Acreed to address our memory? (1	ddress If the size of our memory is $GB = 2^{30}$ bytes)	4 GB, how many bits do we
Question 4: A Three-Switch Fu Or all three are in parallel?	unction What function is realized in	f all three switches are in series?
Question 5: Pondering Truth T	Cables Answer the following about	truth tables.
5.1. A truth table for 3 input variables has how many rows?	5.2. a truth table for 4 input variables has how many rows?	5.3. Write a general expression for the number of rows given <i>n</i> input vari-
		ables.
	1	