## **EECE.3170: Microprocessor Systems Design I**

Spring 2016

Lecture 9: Key Questions February 8, 2016

	1.	Explain the general	operation of the ANI	O, OR, XOR	, and NOT instructions
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2. **Example:** Show the state of AL after each instruction in the following sequence:

MOV AL, 55H AND AL, 1FH OR AL, C0H XOR AL, 0FH NOT AL 3. Explain the operation of shift instructions. What is the difference between SHR and SAR?

4. **Example:** Given AL = 15H, CL = 03H, and CF = 0, show the state of AL and CF after each instruction in the sequence below:

SHL AL, 1

SHR AL, CL

SAL AL, 5

SAR AL, 2