16.317: Microprocessor Systems Design I Fall 2013

Lecture 10: Key Questions September 25, 2013

	1.	Explain the	general operation	of the AND, OR	R, XOR, and NOT	Γ instructions.
--	----	-------------	-------------------	----------------	-----------------	-----------------

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