## **16.317: Microprocessor Systems Design I**Spring 2013

Lecture 7: Key Questions February 6, 2013

1.	Describe the 80386DX flags.
2.	Describe the operation of the ADD, ADC, and INC instructions.
2	
<i>3</i> .	Describe the operation of the SUB, SBB, DEC, and NEG instructions.

- 4. Given the following initial state:
  - AX = 1234H
  - BL = ABH
  - Memory location SUM = 00CDH

Show the results of each step of the following instruction sequence. Be sure to track the carry flag throughout the sequence:

ADD AX, [SUM] ADC BL, 05H NEG BL SUB AX, 12H INC WORD PTR [SUM] 5. Describe the operation of the MUL and IMUL operations.

6. Describe the operation of the DIV and IDIV operations.