

# **16.317: Microprocessor Systems Design I**

Fall 2015

Lecture 21: Key Questions

October 23, 2015

1. (Review) Describe the PIC instructions for increment, decrement, and complement operations.

2. (Review) Describe the PIC instructions for addition and subtraction.

3. **Example:** Show the values of all changed registers after the following sequence

```
cblock    0x20
    varA
    varB
    varC
endc
clrf      varA
clrf      varB
clrf      varC
incf      varA, W
sublw     0x0F
addwf     varB, F
decf      varB, F
comf      varB, W
subwf     varC, F
```

4. Describe the PIC instructions used for multi-bit bitwise operations.

5. Describe the PIC shift and rotate instructions.