

16.317: Microprocessor Systems Design I

Fall 2012

Lecture 21: Key Questions

October 31, 2012

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

2. 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      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 rotate instructions.