Members: _____   Group #: _____

_____

Answer all of the following questions before coming into the lab. You will lose marks if your pre-lab is incomplete.

The answers are in the ***MUN-88 Single-Board Computer*** manual. Read the MUN-88 C*ircuit Description*, including the memory map, and first three sections of the *Monitor Reference Manual – Introduction*, *Getting Started*, and *Monitor Commands*.

1.   How much RAM and ROM does the MUN-88 have? What is the type of each?

_____

2.   What is the frequency of the crystal and of the processor clock?

_____

3.   What is the maximum memory capacity of the MUN-88 available through expansion?

_____

4.   What is the address of the output port to which the LEDs on the board are connected?

_____

5.   What is the address of the input port to which the DIP switches are connected?

_____

6.   What I/O ports does the timer (8254 programmable interval timer) occupy?

_____

7.   In a couple of sentences, briefly describe the MUN-88 Monitor and some of its functions.

_____

8.   If after you apply power to the MUN-88 board, the LEDs flash an alternating on-off pattern, what does this mean?

_____

9.   How many bytes does the monitor reserve for the stack space?

_____

10.   What MUN-88 Monitor command should be used:

a.   to display contents of memory?   _____

b.   to read and display the value of an input port?   _____

c.   to light or extinguish the LEDs?   _____

d.   to download a program to the MUN-88?   _____