Name: Key

ID (last 4):

1.(5) When using assembly language with gcc in the way described in class, explain what precautions must be taken in regards to register use.

must not clobber negisters used by sec

2.(5) In 0.5u CMOS, how does power dissipation scale with clock frequency?

linerally, P=CV2F

3.(5) What fundamental action is taken in the AVR to reduce power dissipation in the sleep modes?

Shut off clocks that Arrent needed.

4.(5) After a power-up reset, the AVR does not immediately begin to start execution. According to the datasheet, why is this?

to let power supply Anolon oscillator stabilize.

5.(5) Jack Ganssle says a great watchdog timer also resets peripherals.
Why is that important?

Peripherals may have been left in incorrect on Imponous states by runaway software thus they should be reinitialized too.

6.(5) What was the initial use of JTAG?

to test for opens & shorts to ICs on a printed circuit board;

(over)

7.(5) What is a bootloader used for?

An be used by the NG to reprosiment itself there are other uses too, Encryption, etc.

- 8.(5) A fuse byte reads what value when programmed?
- 9.(5) True or False, using vi or emacs will make you more attractive to the opposite sex?

Freebie!