Part 1

1. What symbols are allowed as labels?

2. What symbols are used to designate ASCII character values in the assembler?

3. Which type of memory is present on all versions of the 68HC11?

4. How many bits are typically stored at each memory location?

5. Which port is a dedicated output port?

6. What is the function of a data direction register(DDR)?

7. What purpose does an interrupt service routine serve?

8. What is the COP; what does it do?

9. When not being used for A/D, is Port E an input or output port?

10. What is the step voltage on the 68HC11 if the voltage range is 3.456Volts? (V_{RL} is grounded)

11. Imagine that Index register Y is used to move a stepper motor with the following command: LDY #$1A7
    How many steps does this command represent?

12. When will the microprocessor exit the following loop:

```
        ORG    $0100
Watch   LDAB   $100A
        CMPB   #$01
        BEQ    FAST
        JMP    Watch
```

13. What are the three functions of Port A?

14. What components must be added to a push button in order to produce a clean input into Port A?

15. Can the TCNT be read at anytime by the user?