

1. What do the following operators mean? (16 points)

<<

>>

&

|

~

!=

&&

||

2. There is a 4-bit binary number xxxx (a nibble), design three masks to do the following: (15 points for each)

(a) Set bit 3

(b) Reset (clear) bit 2

(c) Toggle bit 0

3. What do the following operations mean? (6 points)

$A \ll= A$

$A \leq A$

$A += 1$

4. Work on the two Switch/Case examples on the website and tasks 6, 7, and 8. Run the demonstration in class to receive the credits. (25 points)

5. What is the resistance/precision does the following color bands represents? (8 points)

Brown Black Black Red

Brown