

EE 1910

Dr. Johnson

Homework 5

1 – Evaluate each of the following expressions – given:

30pts

int8\_t a;

a = 4;

int8\_t b;

b = 100;

int8\_t c;

c = 50;

Decimal value

b +

a / b

c % b

c \* a

c >> 3

3 << a

~a

a | b - 2\*c

a && (b - 3\*c)

2 – Evaluate each of the following expressions – given:

40pts

int8_t a;	a = 5;
int8_t b;	b = 4;
int8_t c;	c = 3;
uint8_t d;	d = 240;
uint8_t e;	e = 11;
uint8_t f;	f = 12;
char g;	g = 'c';
char h;	h = 'C';
float i;	i = 1.212;
float j;	j = 7.55;

Decimal value

$a*b/c|a\&b-c\%a+b$

$d-e\%f>>3<<3\%2$

$g/h+g-h+44$

$i/j+j*5-2*i/.5$

3 – Evaluate each expression individually.

30pts

```
int a;    a = 4;    float c;    c = 1.1;    char e;    e = 'a';  
int b;    b = 5;    float d;    d = 2.2;    char f;    f = 'C';
```

Decimal value

`--a - b + e++`

`b+++a- - -e`

`b << a + 1`

`a >= a + e - c`

`e % a * f / f % a`