EE 2920

Dr. Johnson

Homework 2

1 – Evaluate each of the following expressions – given: 30pts

        int8_t a = 3;
        int8_t b = 145;
        int8_t c = 70;
        int8_t d;

d =

d = b +

d = a / b

d = c % b

d = c * a

d = c >> 3

d = 3 << a

d = ~a

d = a | b - 2*c

d = a && (b - 3*c)

2 – Evaluate each of the following expressions – given: 30pts

```
int8_t a=9;  int8_t b=5;  int8_t c=4;
uint8_t d=6;  uint8_t e=10;  uint8_t f=11;
char g ='b';  char h ='B';
float i = 1.414;  float j = 3.14159;
int8_t w;
uint8_t x;
char y;
float z;
```

w = a*b/c|a&b-c%a+b

[   ]

x = ~d-e%f>>3<<3%2

[   ]

y = g/h+g*h-144

[   ]

z = i/j+j*5-2*i/.5

[   ]

3 – Provide the value of a,b,c after executing the following code snippits. 10pts ea

int a,b,c;   evaluate each problem individually

with a = 3, b = 2, c = 1
```
if (c == 0 || a && !b)
   if (!c)
      b = 1;
else
   a = 2;
```

with a = 0, b = 5, c = 4
```
if (c = a){
   b++;
   c--;
}
else
   --c;
```

a   b   c

with a = 4, b = 2, c = 3
```
if (c = b){
   b++;
   c--;
}
else
   --c;
```

with a = 5, b = 0, c = 5
```
if (c = a < b){
   a += 3;
   b -= 1;
}
else
   a = b++;
```