HW 2

Bits and Bytes

Name: _____ Time spent: _____min

1) Choose the best identifier for each binary element in blue.   30 pts

(X in the box)

A: 1001**0110**

B: 1001**0**110

C: 10010**110**

D: **10010110**

E: 10**010**110

F: **10010110**11110000

G: 1001**011011110**000

	Bit(s)	Nibble	Byte

2) Provide the bit value(s) for each item.   30 pts

(1 or 0 or ?)

Num = 10010110

Num[3]
Num
Num[8]
Num[4-2]
Num[5,3,1]
Num[7-6,2-0]

3) Convert each number from KMG $\leftarrow\rightarrow$ 2^n format (show your work – like the notes) 40 pts

16K $\rightarrow$ $2^{\underline{\hspace{1cm}}}$

8M $\rightarrow$ $2^{\underline{\hspace{1cm}}}$

2G $\rightarrow$ $2^{\underline{\hspace{1cm}}}$

2^4 $\rightarrow$ $\underline{\hspace{2cm}}$

2^{13} $\rightarrow$ $\underline{\hspace{2cm}}$

2^{20} $\rightarrow$ $\underline{\hspace{2cm}}$