

A=12-1
J=11-1
S=0-2

CSCI2160Quiz1S09HexCodes

Name: _____

Complete the below table (42 pts):

Character	Hollerith (punches)	EBCDIC (binary codes)	EBCDIC Hex	ASCII Binary	ASCII Hex	ASCII Decimal
E	12-5	1100 0101	C5	0100 0101	45 _h	69
H	12-8	1100 1000	C8	0100 1000	48 _h	72
M	11-		D			
P						
U						
W						
5		F5			35	

(18 pts) Why are there 8 bits in a byte (give 2 reasons)?

(40) pts_ Perform the below computations (The tiny numbers indicate the base)

$$\begin{array}{r} 1CAE_{16} \text{ (Base 16)} \\ + 9FCF_{16} \end{array}$$

$$\begin{array}{r} 10101101_2 \\ + 01011111_2 \end{array}$$

$$\begin{array}{r} 234_5 \text{ (Base 5)} \\ \times 33_5 \end{array}$$

$$\begin{array}{r} 2D5F_{16} \\ \times 24_{16} \end{array}$$

Extra Credit (10 pts)

$$\begin{array}{r} 10110_2 \\ - 1011_2 \end{array}$$

$$\begin{array}{r} 2C15_{16} \\ - DE8_{16} \end{array}$$