Name: GURPREET SINGH

Numbering Systems Quiz

Date: 3020-03-03

Complete the following problems and fill in the missing values. One mark for each correct answer. You have extra room to show your work. [6]

DECIMAL 🗸	BINARY	HEXADECIMAL
128+64+ 32+16+ 85 H+211	1 1 0 1 0 0 1 1	777 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
21110		D 3 16 V
1391 54 +33116 + 8+4+2 +1	5 0 0 R	A D 16
173,0 N	101011012	
207	0 R	11111 0011
	51	8141241 814211
	25 1	12 15
	15 1	
	6 0	CF16
	0 1	
	110011113	

Binary Addition [2 marks]. Assume all binary numbers in this question are unsigned.

60) 1 0	100	0	0	1)	1	Ţ	1	0	0)	1	0
-	<u>+ 0</u>	0	1	0	1	0	1	1	0	1	0	1	0	1
	1	0	1	0	1	0	1	1	0	1	0	1	0	1
	1													
	. 1	0	1	0	1	0	1	1	0	1	0	1	Ŏ	1
0	1	0	۵	000	0	1	00	1	0	1	0	,		

3. Binary Subtraction [2 marks] Use two's complement to solve. Both numbers are 8-bit signed integers.

