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course: Computer Arichitecture course code: CSE 215

Qa Solution

Soln: Final version of the division algorithm support this condition. Dividing 11010, by 0010 op 26,0 by 210:

Honation	steps	Divisor	Remainden
0	Initial values	0010	000 11010
	Shift Rem left 1 bit	0010	0001 1010
1 -	2: Rem = Rem -Div	0010	①111 1010
	3b: Rem 40 > + Div, sliR, Ro=0	00 10	@011 0100
5	2: Rem = Rem-Div	0010	0001 0100
	3a: Rem≥o⇒SIIR, Ro=1	0010	0010 1001
3	2: Rem=Rem-Air	0010	(0000 1001
	3b: Rem>0 ⇒ SIIR. Ro=1	0010	0001 0011
4	2: Rem = Rem - Div	0010	1111 0011
	3b: Rem LO > + Div. SIR,	0010	0001 0011
	4110110110	0010	0000 0011

Q1 solution

 $-0.00855 = \frac{-0.0000 \times \cdot -1.00 \times 2^{7}}{0.4575} = 1.11 \times 2^{7}$

step-1 (Adding the exponents)

-7-2=-0

new exponent = -9

considering bias = -0+127

= 118

Step- 2: Multiply

1.00 X 1.11 1.11 .: 1.11 × 20

Step-3: nonmalize

It is already nonmolized.

50.0 1.11X29

Step-4: Round the number

1.11x29

Am: