

BALAAO BEB & ar counter Calle B anded wild and Doded with 1111: 5 frequences of clock sauce = 1 M Hz. $\tau = \frac{1}{f} = \frac{1}{1\times10^6} = 1.01 \text{ sec.}$ CAR LOUDI (- W) COS solve asla that = Telusa ratural to 410 and 1 550, The decemed values at 0/8 h of both countery A,88 & TIO. 2 ms in, no-f choca pulse = $\frac{0.2 \times 10^{-8}}{1 \times 10^{-6}} = 0.2 \times 10^{3}$ = 200> Dan counter A/ Initial -> 0000 > 15 clock pulser 11tcla 3 10 0 0 1 required-to. 2nd con -> 0 0 10 complete all relater 15th column 1 11.11

18th Du 2 0 0 0 0 1 16 Marocu esclu 1444 - - 0 0 0 0 1 1394 -> 0 0 1 0 required. 2001 310+ -> 1 1 1 35, mg - 3 a a a a $\frac{1}{16} = \frac{185}{16} = 113$ revenueller = 9 192 son -) 0000 193 11 2000 1001 200 de -) 1000 - The of counter A at 200th du pulse 1000 - -> (8) 12 200 S 10 5 0x For counter BL -) The counter A completed 12 full circulation. Sop counter B is decremented 12 times. 1111 (Chitin I sh > 10 10 (M) 1001 - out - 3 - 1 - 1 - 0 11 71-21000 344) 1100 12m 90011 1 0-t t

1) The of of counter B of for 12 decrements From the derign (anwer't ptoquestion) The Counter B & connected to The freq. & & Bo this -2 Bo follow Az output 5th Alip flop.