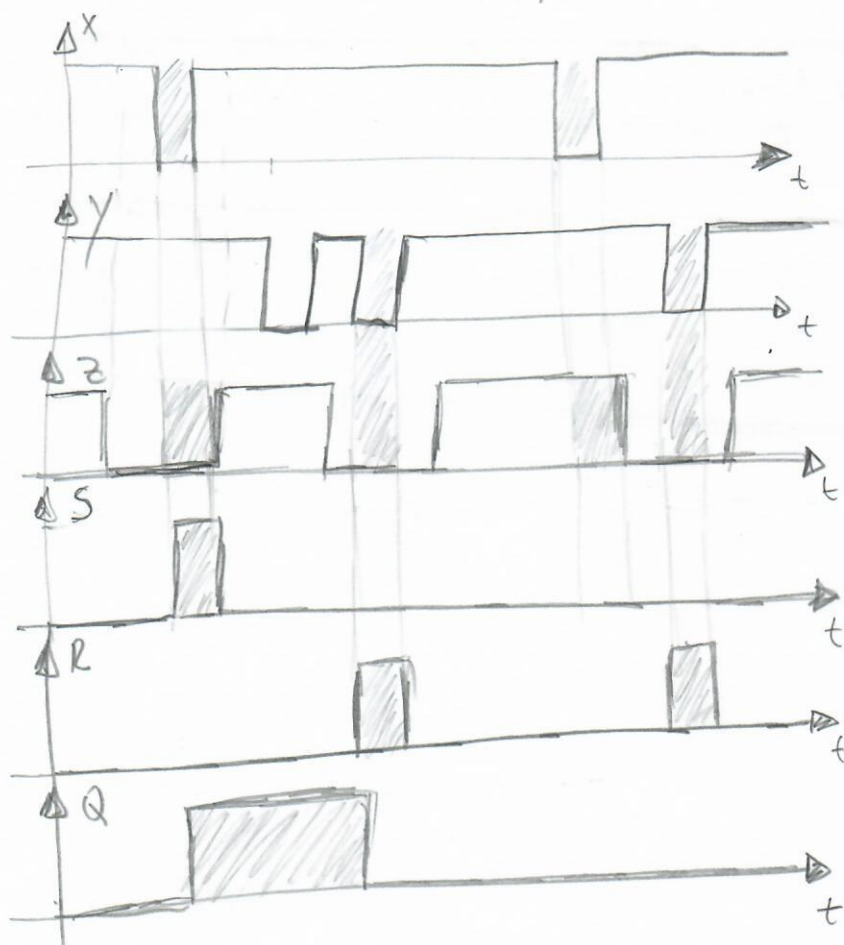
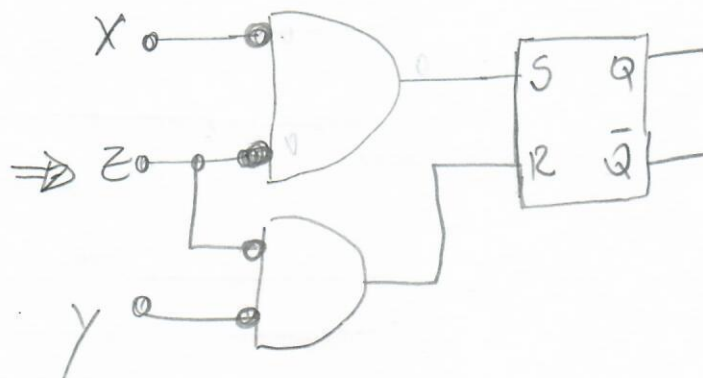
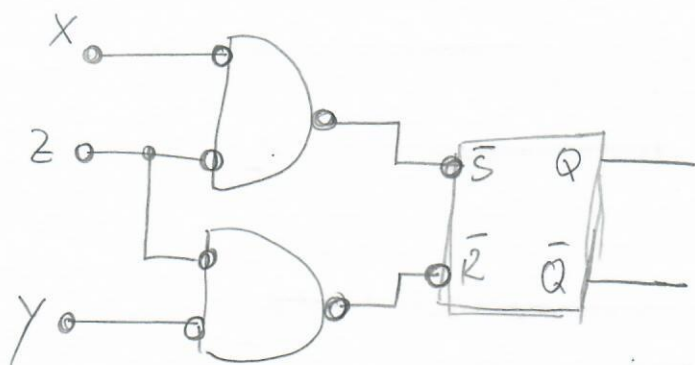


CAPÍTULO 5

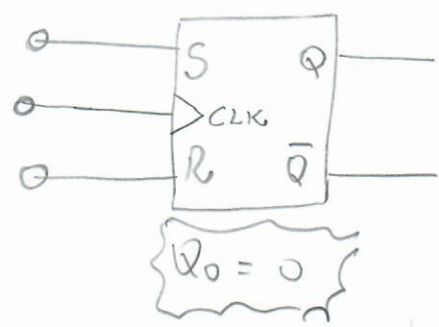
5.3 ⇒ LATCH S-R:



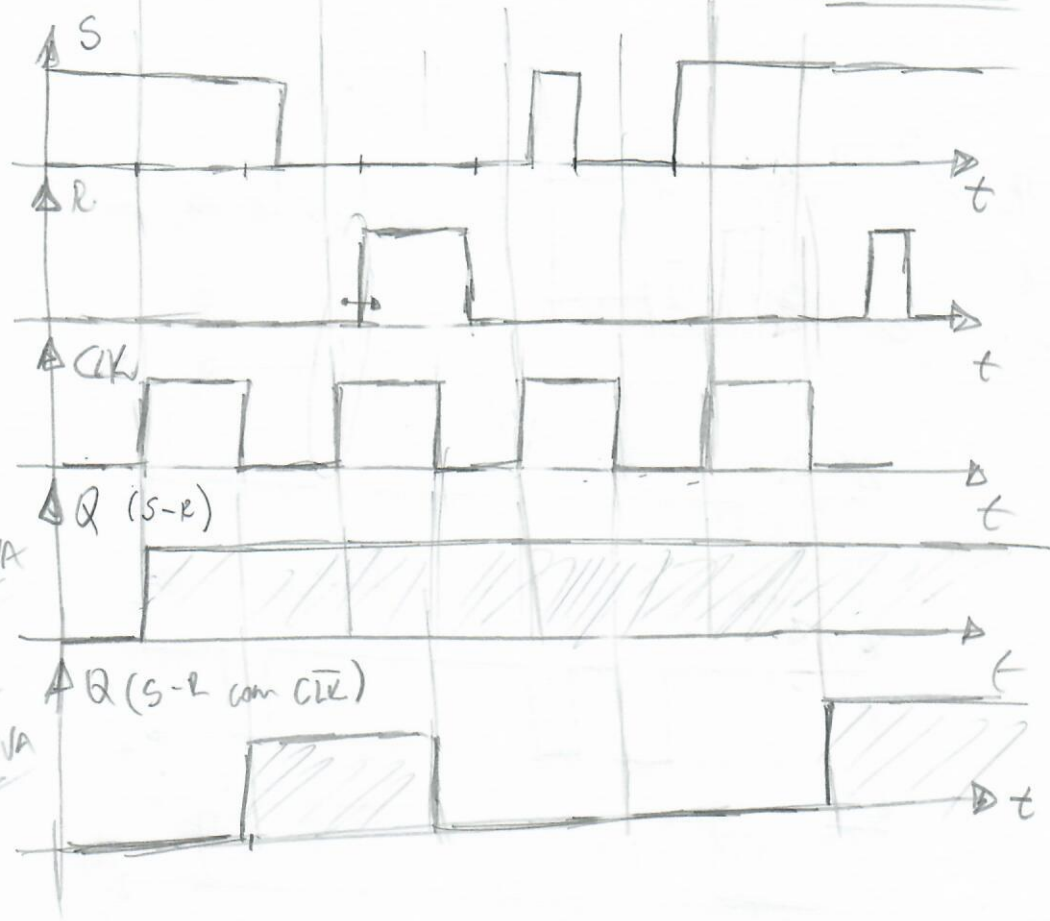
5.9

FF S-R:

2



S	R	CLK	Q
0	0	↑	Q ₀ (NÃO MUDA)
0	1	↑	0
1	0	↑	1
1	1	↑	AMBIGUO!



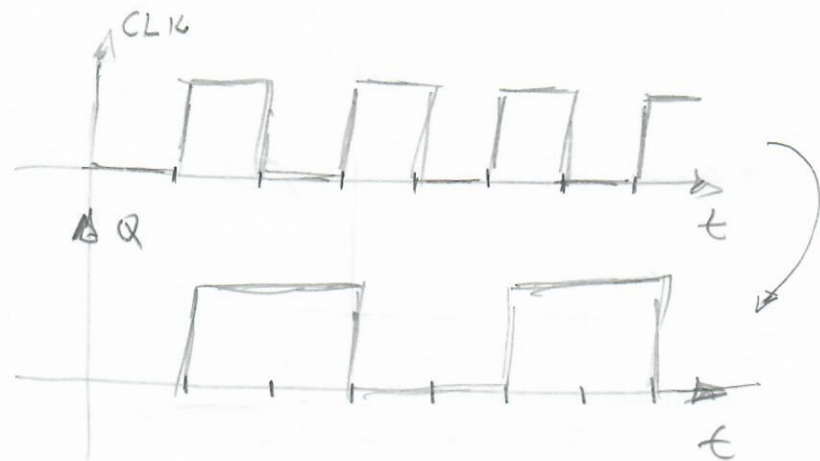
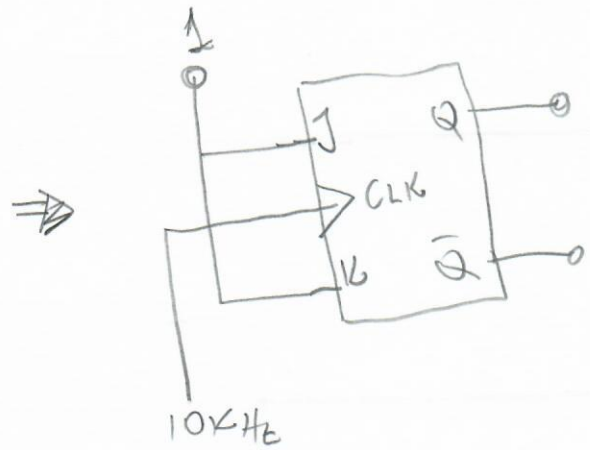
DISPARO
EM
BORDA POSITIVA

DISPARO EM
BORDA NEGATIVA

20

5.12 a) i) FF JK \rightarrow FF T e (ii) CLK = 10KHz (3)

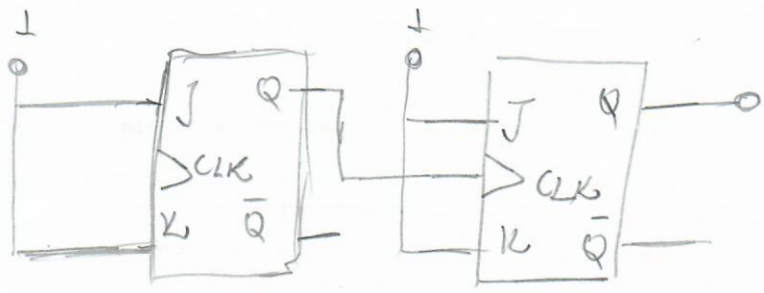
J	K	CLK	Q
0	0	\uparrow	Q_0 (NÃO MUDA)
0	1	\uparrow	0
1	0	\uparrow	1
1	1	\uparrow	$\overline{Q_0}$ (COMUTA)



DIVISOR DE
FREQUÊNCIA
($\div 2$)
5KHz

b)

FF T \rightarrow FF T



($\div 4$)
2,5KHz

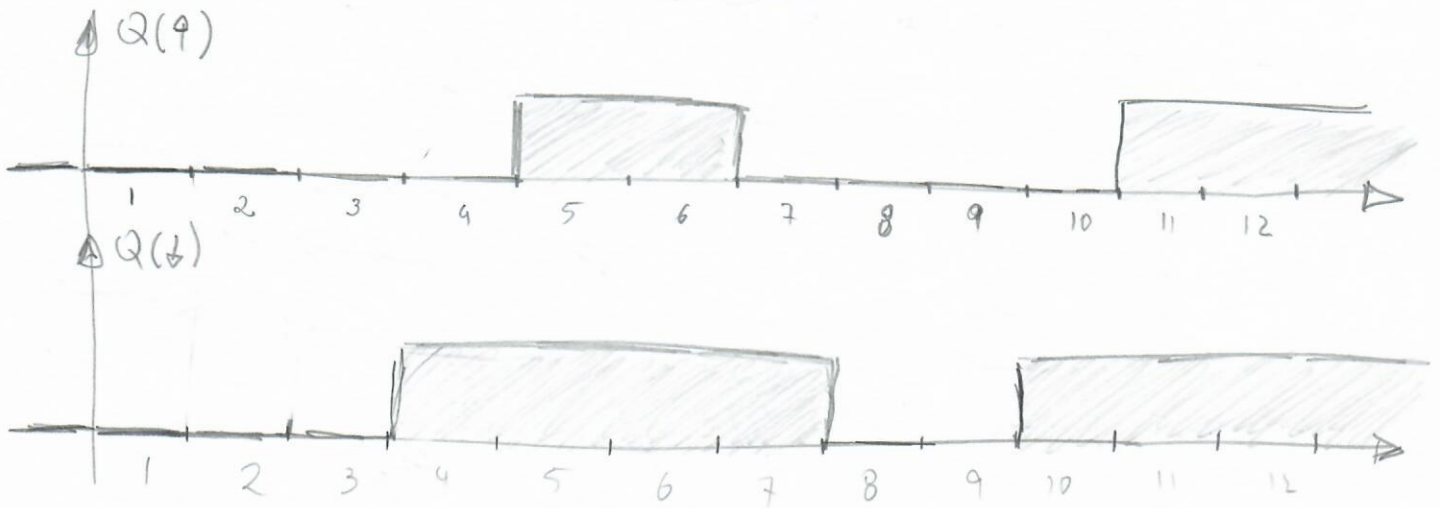
[Handwritten signature]

5.13 a) FF J-K ↑

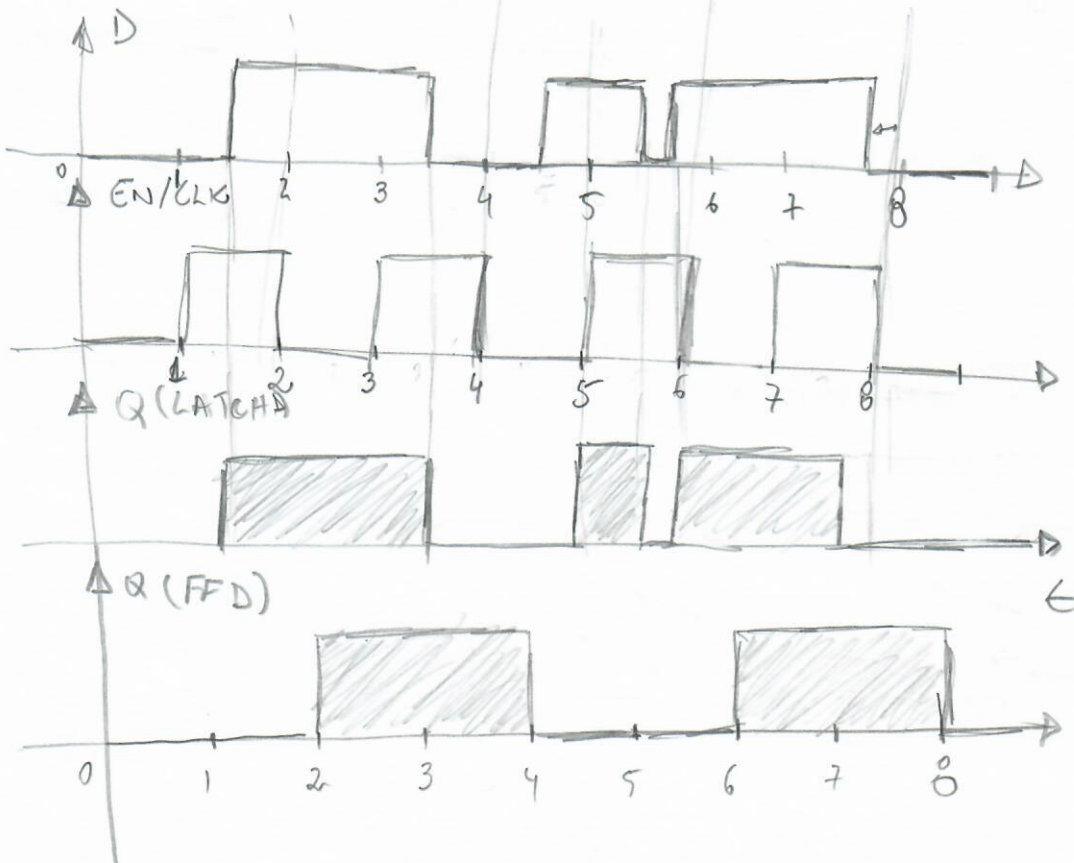
b) FF J-K ↓

④

$Q_0 = 0$

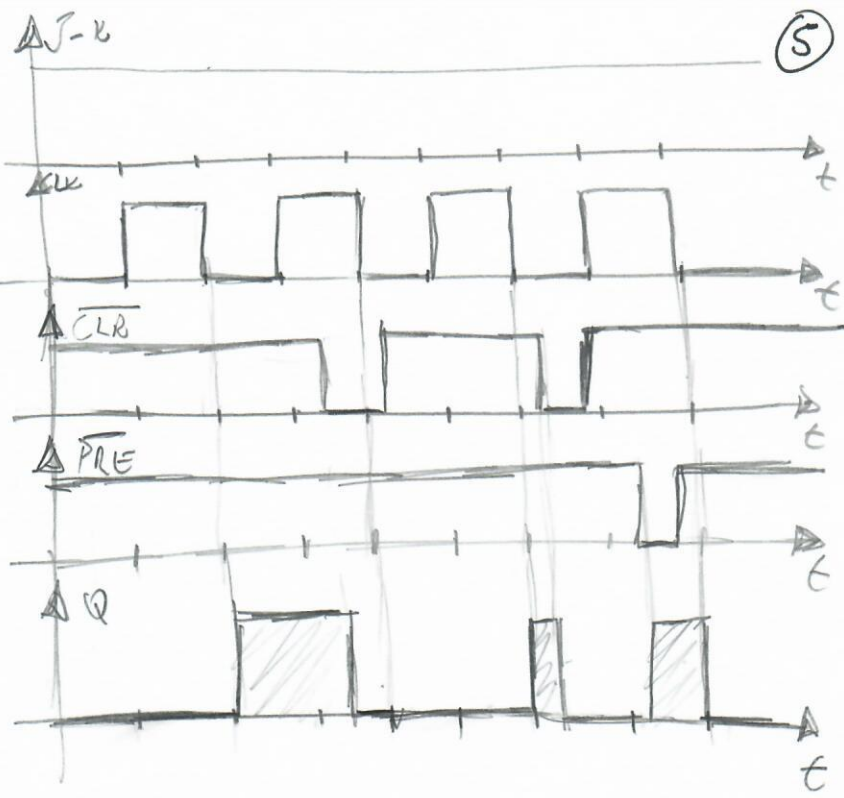
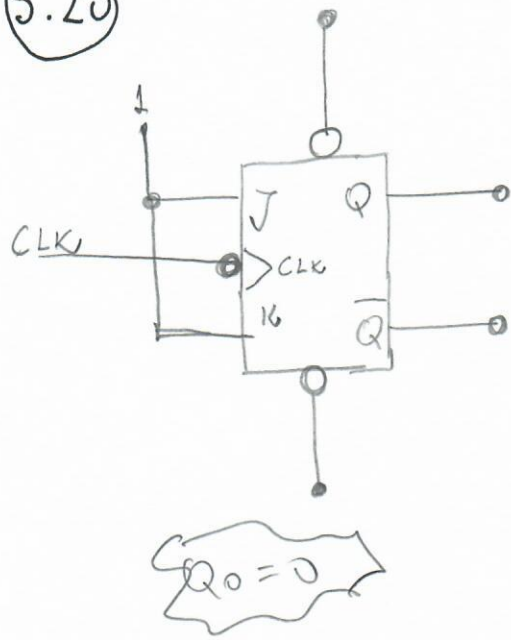


5.18 LATCH D (TRANSPARENT) VERSUS FF D ↓ $Q_0 = 0$



Handwritten signature

5.20



5.27 a) Tx PARALELA DE 3 BITS com FF J-K

