

ANSWER BOOKLET

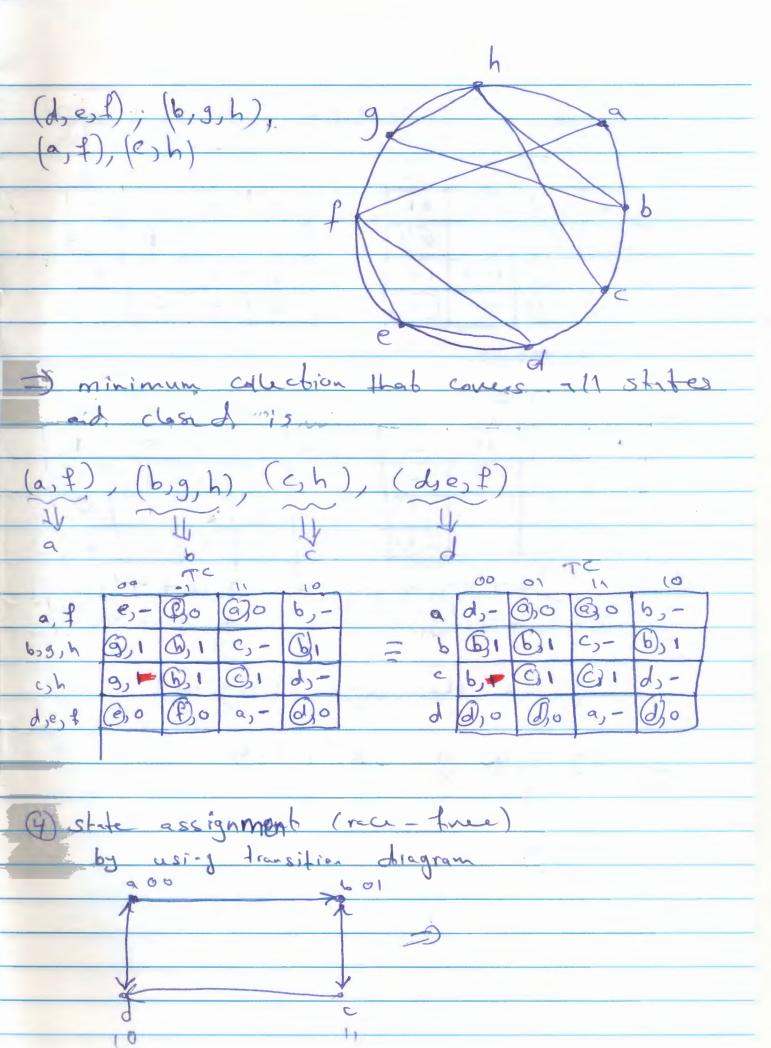
Student	Advanc	Number	
Course:		Number:	
Date:	Day	Month	Year

For Instructor's Use

Question	Grade
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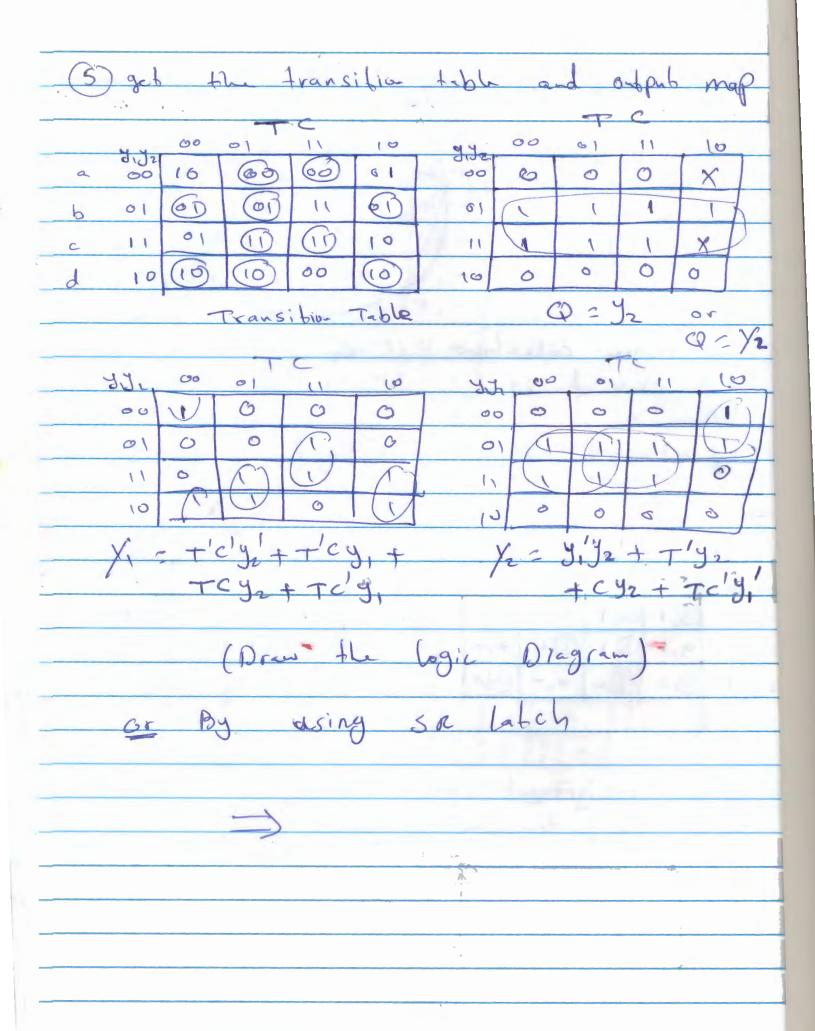
Example			
Design a negative Fdge T-FF			
Solution			
Design specification:			
This circuit has 2 inputs (clk and T)			
and one or pat Q. The following are "the possible			
total Betes			
T alh op - slabte??			
o o o yes			
00 1 45			
o d o yes			
yes			
100 95			
Jes 1			
yes yes			
Jes .			
2 gt the primitive flow table			
State Inputs output comments			
a lo after dorf			
b O I offer a of of			
efter b or h			
after core			
e o o of dorf			
f of e or a			
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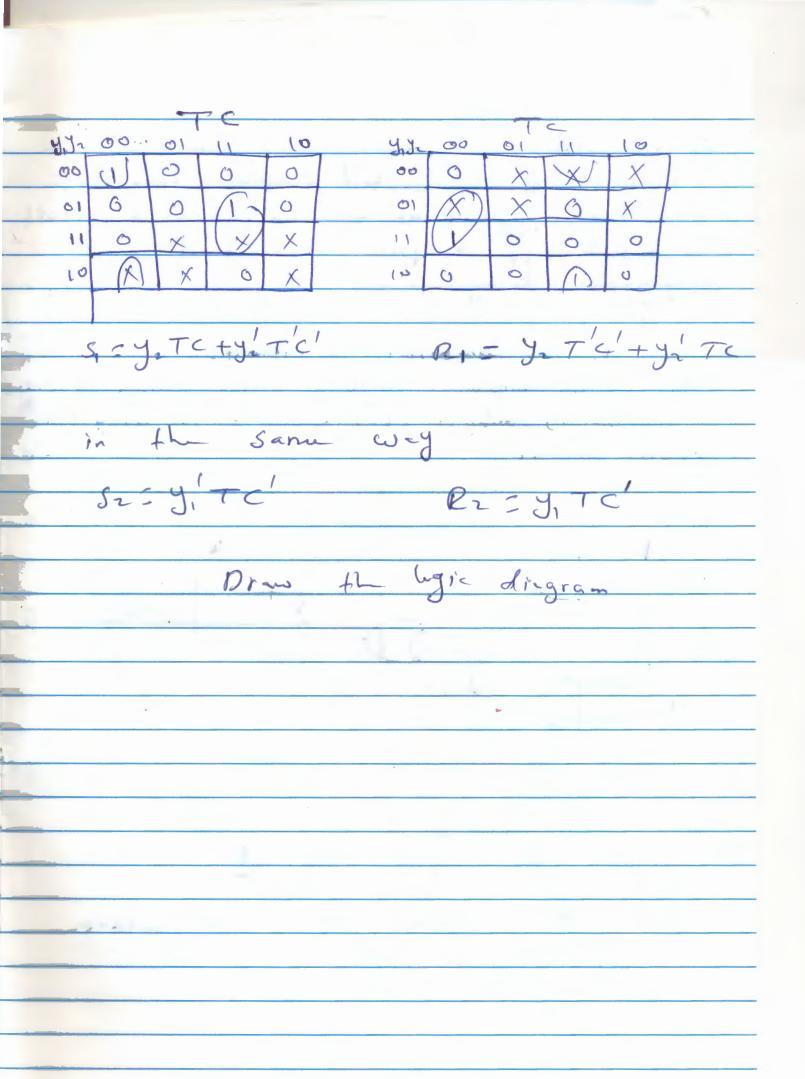
-> Primitive flow table				
a for a) o by-				
b 9,,- C,- B,1				
c h, - @1 d, -				
d ess- as- Bo				
e @ 0 f > > - d > -				
f es- (1)0 ass-				
g (D) 1 h, - -, - b, -				
hg, - B1 c,, -				
3 reducing the number of states by marging				
the rows				
6 95CX				
$c \times b, dx$				
d bodx X ascx				
e b, dx e, g x fsh x				
f v Sig X Rin X v				
g foh X V bodx fig X X fig X				
L foh X V die X Pih X X				
a b c d e f g				
per compatible pairs				
(a, f), (b, h), (c, h), (d, e), (d, f), (e,				
(g, h)				
I maximal compatibles using merger				
diagram				
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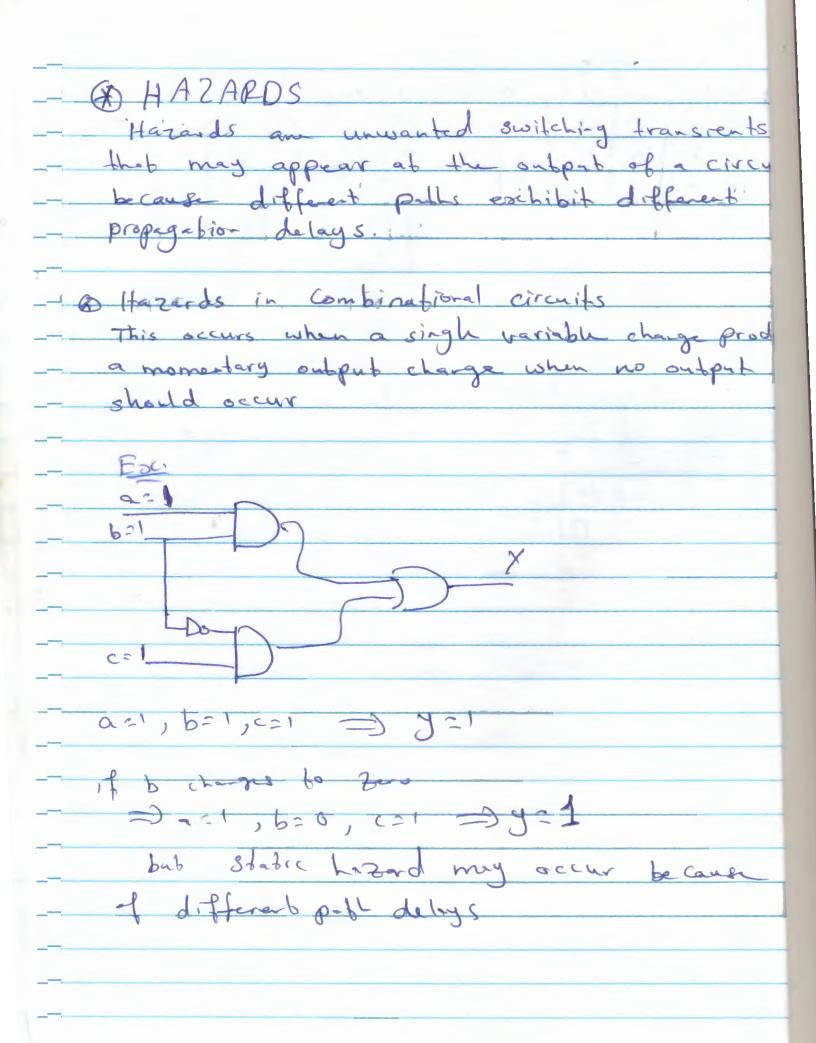


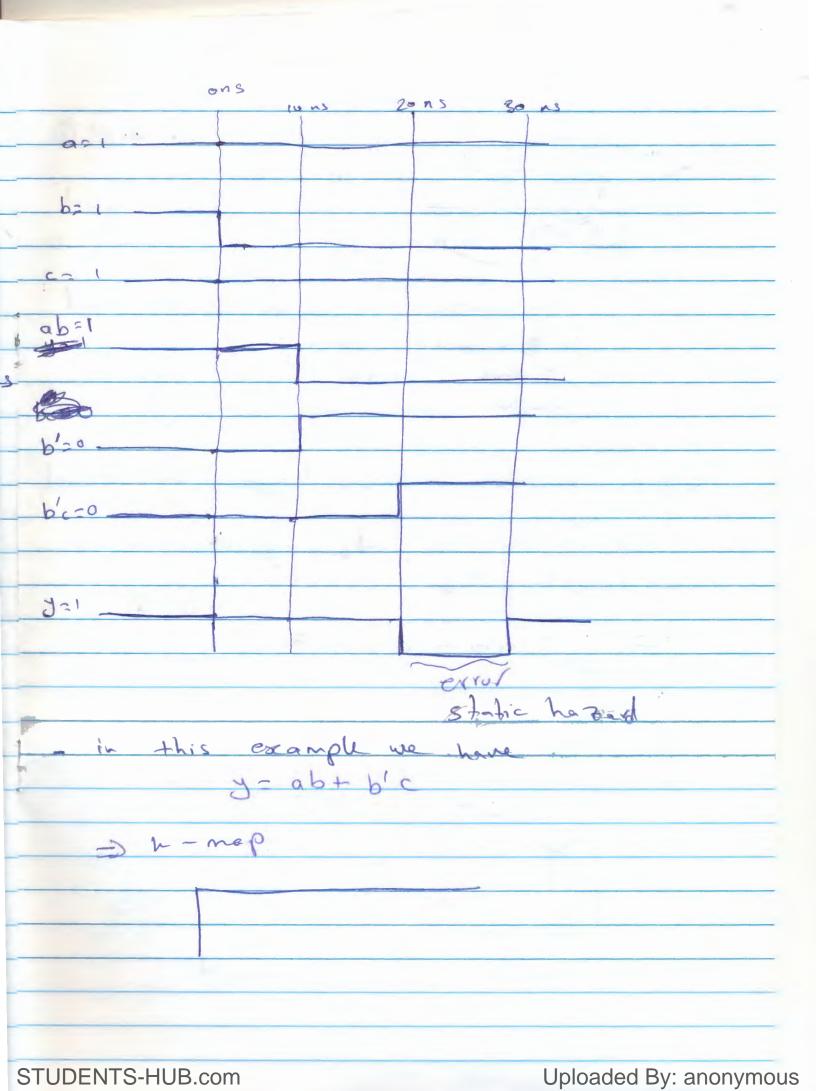
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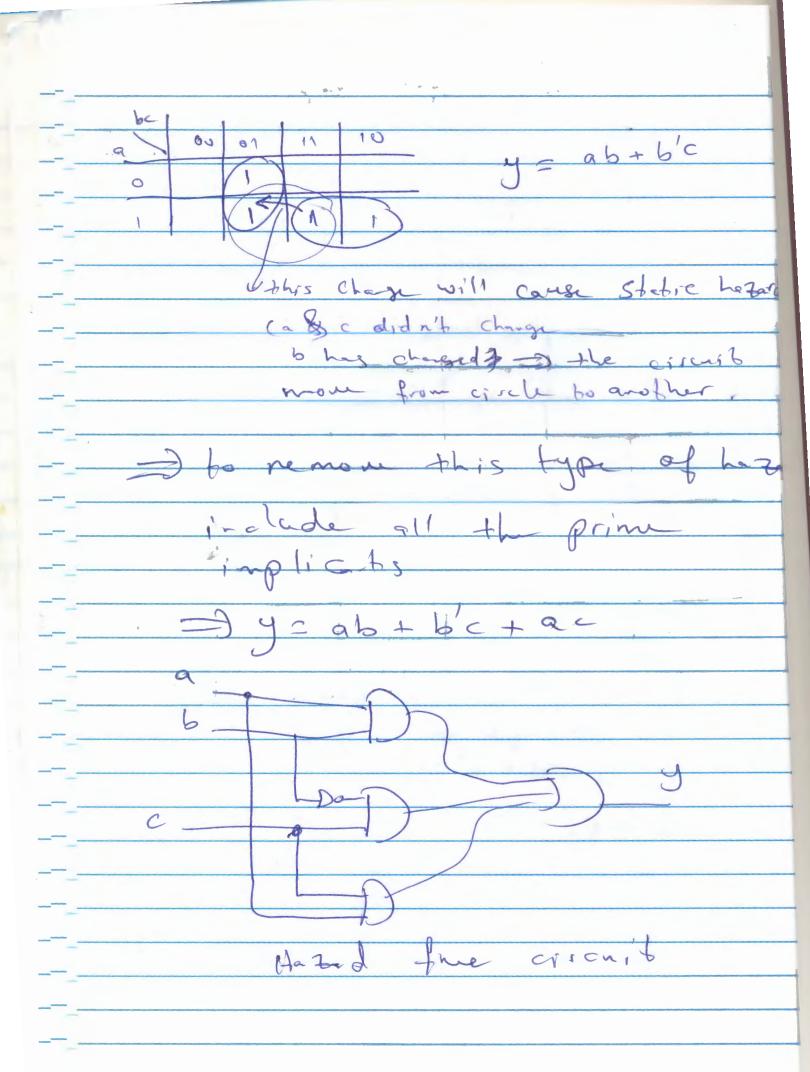
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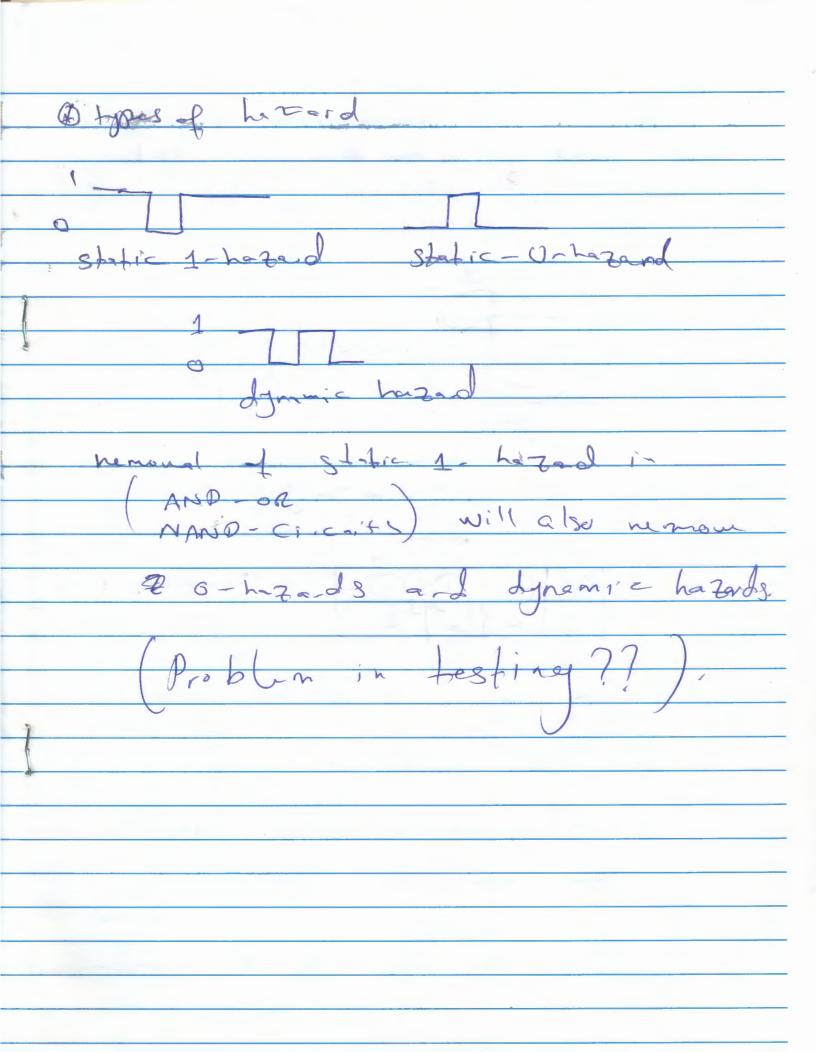


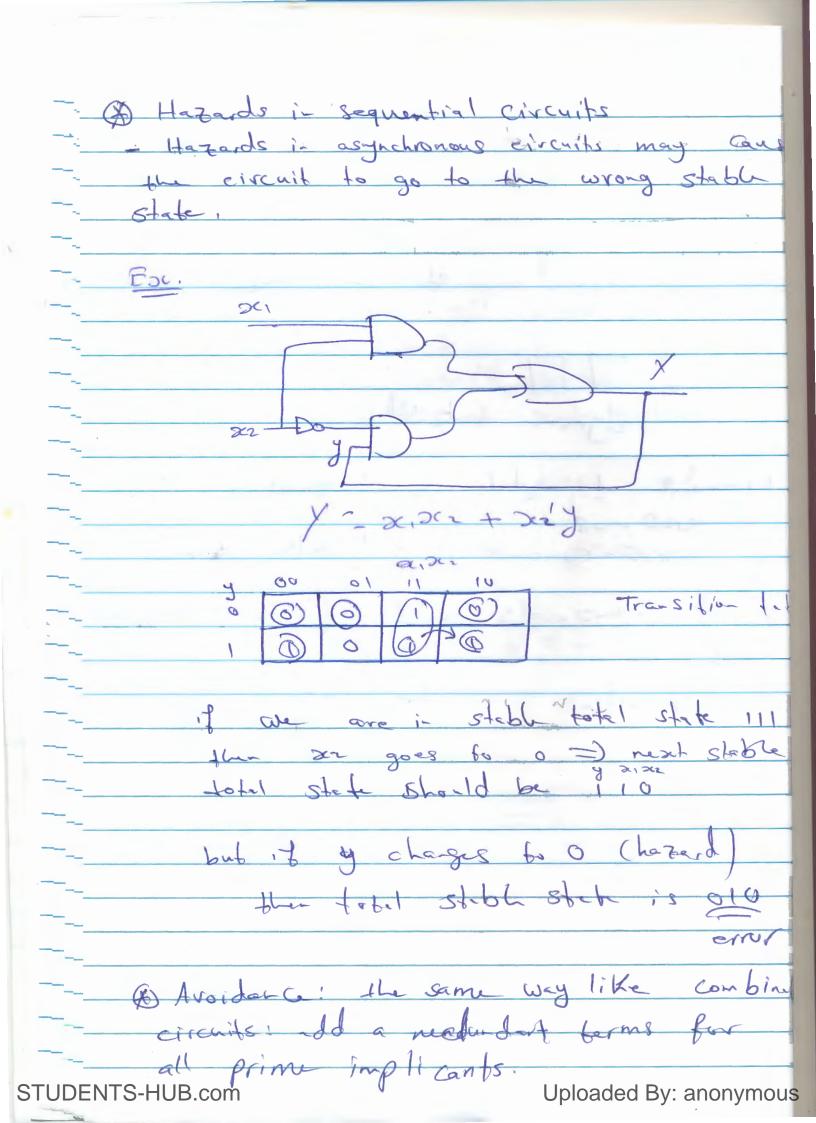












@ Implementation with SOR latch concerts with SR latches

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a note about implementation with SK latel -sa with 2 nor gates y = 5' + Ry Excitable Jable Q(1) Q(1+1) S bhis is fer) o from this excitation table and Spand - Smr - (AB+CD)

