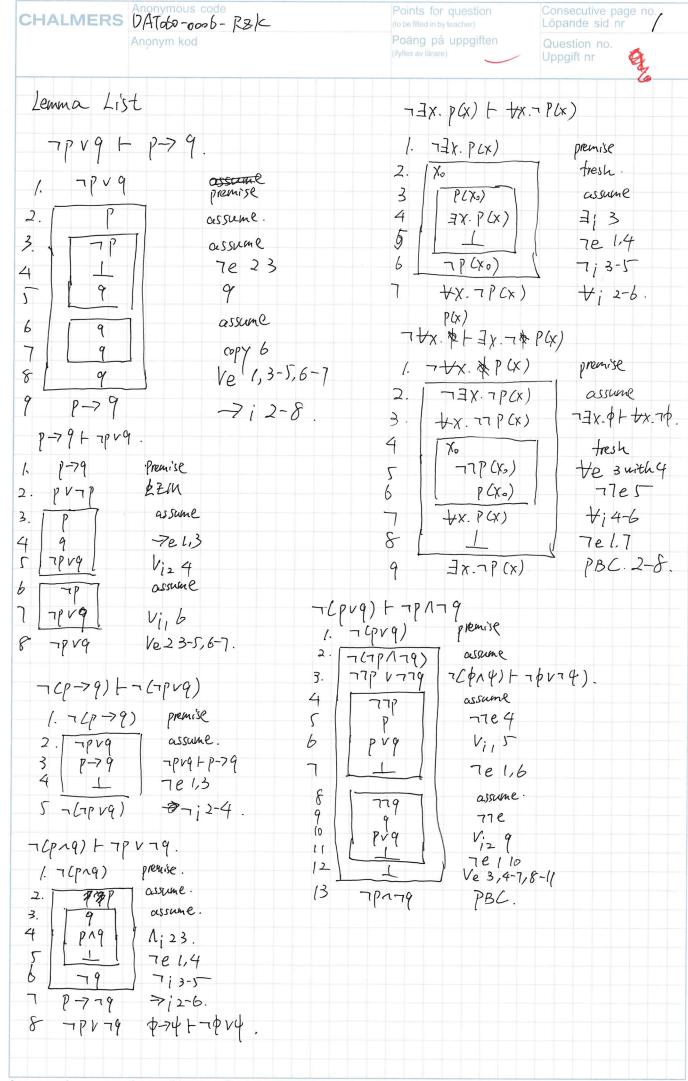
CHALMERS EXAMINATION/TENTAMEN

Course code/kurskod	Co			
DA7060	Logic in			
Anonymous code Anonym kod		Examination date Tentamensdatum	Number of pages Antal blad	Grade Betyg
17AT060-0006-	RZK	2023/08 114	14	4

confirm that I've no mobile or other similar electronic equipment available during the examination. 1g intygar att jag inte har mobiltelefon eller annan liknande elektronisk utrustning tillgänglig under ximinationen.

ximinatio	onen.		
olved task shandlade uppgifter		Points per task Poäng på uppgiften	Observe: Areas with bold contour are to completed by the teacher. Anmärkning: Rutor inom bred kontur ifylles av lärare.
1	V	6	
2	V	3.25.	
3	\checkmark	3.25. 6.5.	
4	V	9	
5	1	1	
6	V	6	
7	1	6	
8	V	4	
9	\checkmark	2	
10	V	5	
11	BP	4.1	
12	7	3038	46,85 7 47.
13			
14			
15			
16			
17			
Bonus poäng			
Total exam points Summa poi på tentame	äng		



Answer only one question on this page. Do not write on the back of this paper Behandla endast en uppgift på detta blad. Skriv ej på baksidan

CHALMERS	Anonymous code 174 (obo-0006- R2-K Anonym kod	Points for question (to be filled in by teacher)	Consecutive page no. Löpande sid nr /2
	Anonym kod	Poäng på uppgiften (ifylles av lärare)	Question no. & Uppgift nr
8. GLFP	1Fq) -> GFCPAq).		
LI-(S		2	
For an arbitrar	y path 71, it's always the case that	exists a fature pholds	and exists a future q hold
2) [0	path T, it's always the case that exist .		
Given the ho	del		
	In this model, since f		
So S ₁	The LHS. However, it	t down exist a state u	. T, N = Prg.
So S ₁	Sz Hence, it doesn't satisfy		
	Hence, the tomula is not	Evalid.	
GTPATE	ig -7 GFGng).		
145			
For an aubitrary	path of, it's always the case that exce that or holds from non or	ists a future pholds, cer	d it's have a future
l	that q holds from non or	n.	
for our arbitrary	pools if it's always the case that exc	its a fecture p and q both.	held
		0	
21-15 states that.			0
for an arbitrary p	of 7, exists a state n, tr, n=p,	and exists a state n	T, I FR for every
			(2) 1000.
	state j, j= mex(n,m), T, j=		
This meets the	ne destinition of RHS		
Hence this	tomula is valid		