			MTWTFS				
	Charles and the Control of the		Page No.: S S Date: YOUVA				
			, and a second				
	Aut	omata Howhework-3 (CFG1)					
01)							
a)	S-> asclT	h) s → ε/a3/b/	1				
-	T -> ElbTc	A -> aclbAA					
		B→ aD16C					
(d	$S \rightarrow AC$	C -> as 1 bC	A				
-	A -> ElaAb	D → aDB 1 b	S				
	C → €1 bCc						
	21000						
()	$S \rightarrow BC$						
	$B \rightarrow AE$						
	$A \rightarrow alaA$						
	E > ElaEb						
	C→FD						
	F > ElcFd						
	$D \rightarrow d dD$						
<u>d)</u>	Ł,						
,	$s \rightarrow \epsilon   a^3 s b^2$						
/							
e)	S → Ab						
	A -> a   aAb   aAa   bAa   bAb						
()	S -> asd ITIU	S→T is chosen if m>q					
37		S > V is chosen if mag					
	T -> W L aTC	is chusch if ms	4				
	U -> W) === bUd						
-	W -> ElbWc						
9)	s' > aB'   bA'   E	S', A', B' have	timed to D. Rott M.				
0	A' -> as' I bA'A'	and S can be seemed	ited as a sequence of				
	B' -> bs' \ aB'B'	A's	mea de a sequence of				

S -> A'ISS

		M T W T F S S		
	Pa	ge Ho.:	YOUVA	
	Da	re:		
82)	S -> SCIPPIE			
- 0.7	$P \rightarrow 0$			
	1			
	Chomsky Normal Form			
03)	Gireibach normal free			
	S -> 01 08A11A			
	A -> 1   IAS   OS			
0-4)	L= { ww   w \ (a+b) }			
	Consider strings of the form a barbarb, Mune are to L. (if exists) should accept these languages. Now for CFG, a barbarb = uxwxy where 1xwx1 & n is in a a, a b, b, b, ba, in each of these cases uviwxiy is not part of the language. Hence He for he which proves L is not CFG.	Now either we can s	ung le	emma