5.4.1	
a) Parce lover:	
a) Parce trees: * S > as as bs 6	sequence -> aab
5	3
- V	as bs
as '	as b 3
V	1 1
as6s	as E
	<u> </u>
€ €	ϵ
b) heft derivation	D=01- 1 = A=
b) reft deuvation	c) Right derivation
5	<u>C</u>
J,	
as bs	as
1 1	
a5 6	as 65
E	EE

$3 \rightarrow 8 \rightarrow 8040/181/88$	S-> OAO
$A \rightarrow C$	$S \rightarrow IBI$
$B \rightarrow S/A$	S -> BB
c > s/e	A -> C
	$B \rightarrow S/A$
	c -> s/G,
Λ / / / / /	$\epsilon \Rightarrow A \rightarrow S/\epsilon$
\star B $\rightarrow A'$, $A \rightarrow S/\epsilon$	B -> S/E
* 5-70A0/181/=	5 7 050 / 151
$\star S \rightarrow BB = S \rightarrow$	e
5 >	050/151/E

¥	Chamiky Worm	al form =	
	Non terminal	Non terminal	Non teuminal
		1 -> Terminal	
	S -> OP	$5 \rightarrow R_3 R_3$	5 -> 0A0 1B1 BB
il	P-) AQ	R3 -) B	A -> C
	$a \rightarrow 0$	$A \rightarrow c$	$B \rightarrow S / A$
1,	5-)181	B-)5	L-) 5/E
1	$s \rightarrow 1R_{I}$	B-) A	•
	$R_1 \rightarrow BR_2$	c-> s	
	$R_2 \rightarrow 1$	c-)e	

4) s -> aAa / bBb/e 5-> aAa		
$A \rightarrow e/a$ $S \rightarrow 686$		
$B \rightarrow c/b$ $S \rightarrow \epsilon$		
$c \rightarrow cDE/E$ $A \rightarrow c$ a		
$D \rightarrow A / B / ab$ $B \rightarrow 5/ A$		
C7CDE/E		
$D \rightarrow A/B/ab$		
* $A \rightarrow c/a c \rightarrow cDE \mid e =) A \rightarrow cDE \mid E \mid a$		
$\star B -) s A ; A \rightarrow c a = B - s C a , ,$		
* C - CDE / E , D - A / B/ab -) CAE CBE / CODE/E		
* D -) A B ab A) -) c/a, B -> c/b,		
=) b-) c/a/c/b/ab		
D-) c/a/b/ab		
* 5 7 aAa 686 C; A > C/a, B > C/b,		
=) 5 -> aaa/aca/6bb/bcb/E		
* Champay Normal Form =		
Nen terminal - Non terminal Won terminal		
Non teuminal - Touminal		
STAPR S-) BM ATC D-) A Y-) B S-) E D-) AB M-) BN A-7 a D-) B C-) CT C-) E		
Q-)a N-95 B-96 D-7X, T->DR		
13-70 1X-7a/ 1R-7E		