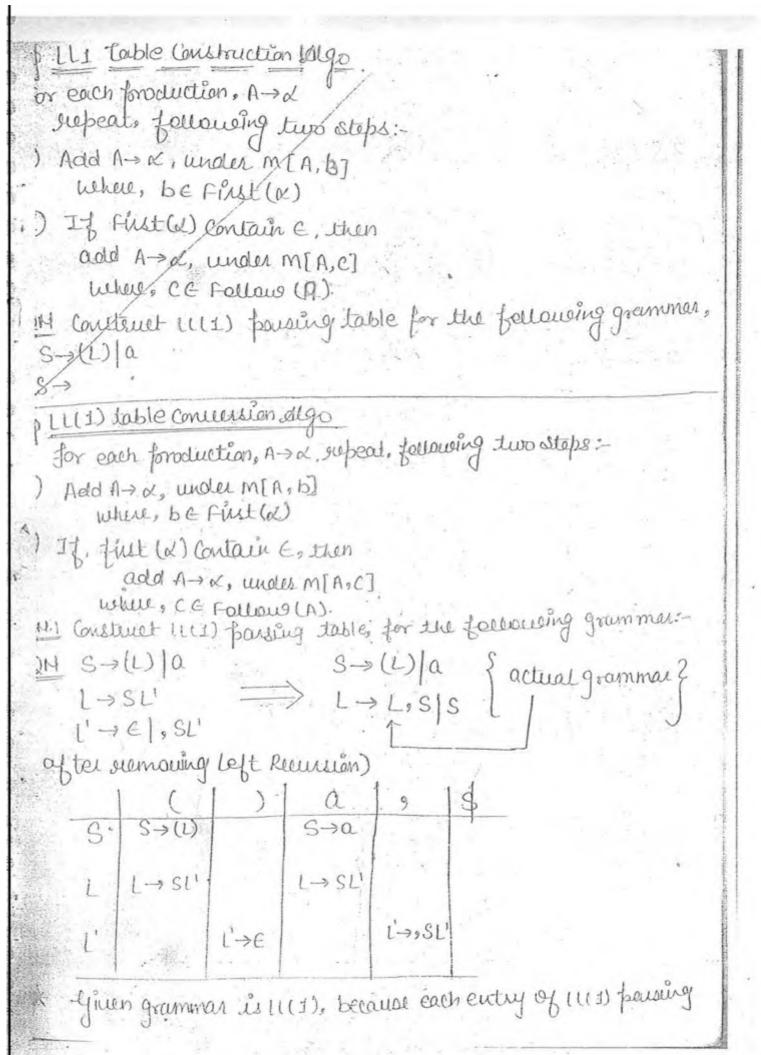


```
dola
          FIRST!
           ع والما
          Est
          id C
          €9*
           id, C
  DI Find the first for the following gramman:
                  First (S)=[0]
   S- aBDA
                   First(B)={C}
  B-occ
                   First (1)=16, E?
  C->bcle
                   First(D) = 19, f, E ?
   D-> EF
                   first (E)= 19, E;
  E-> 9/E
just -> +1E
                   First (F) = if, E?
  IN Find the first for the following gramman:
                        first(s) = d, g, h, E, b, a
  S-> ACB/CBB/Ba
                         First (A) = d, g, h, E
6A-do BC
                         First (B)= (9,E)
 8-> 91E
                         First (1) = { R, E3
  ? -> A/E
  IN- And the first for the following gramman:
                         FILL (S)= C, a, d, b
  3- AlaAb BbBa
                         First (A) = C, E
  1->016
                         first (B) = d, E
  3-0 d/C
  Foilow () => Follow (A) juaiable.
 Follow (A) gives set of all turninals, that may follow inmediately
  o the right of A-
  ulci: If A a Start Symbol, then
                 Follows (A)=$
  we2:- It x → & AB is in G:-
         then, follow (1) = Pirst (3)
```

"ule-3: If x→ xA (or) x→ xAB	Fill!
B→E	ion er
(Follows (A) = Follows (K)	se !
DH. Find first and follows for the following gramman:) Ac
0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$) I:
$N \rightarrow 0$. (
B cid e	
A a C.d.	IN C
Qu. find first and follows for the following grammar:	S-x
E-> TE' First Follows	8/3
E' > C TE' E lid, C \$,)	
$T \rightarrow ET'$ $E' \in + \{5,7\}$	for
$T' \rightarrow E \mid \# T' \qquad T Jol, C \$,), +$ $F \rightarrow Jol \mid E \rangle \qquad T' \mid E, \# \qquad +, \$, \rangle \qquad PO$) Ae
1. 200 (6)) He
214 Find the first and follow of the following grammar-)]
S-> ABDh Hist follows	-B
B → CC	
C-> bC 6 B C 9.1.h	47.1 C
$D \to EF$ $C \to 91E$ $C \to 91E$ h	517
D. 19:11 11. Au	The state of
E 916	1
F.I.J.C.	abt
1	1
$l \rightarrow SL'$ S $(,a$ $S,',j$	
L (,a),	ŧ
[E, 9.]). A.	100

© Wiki Engineering

www.raghul.org

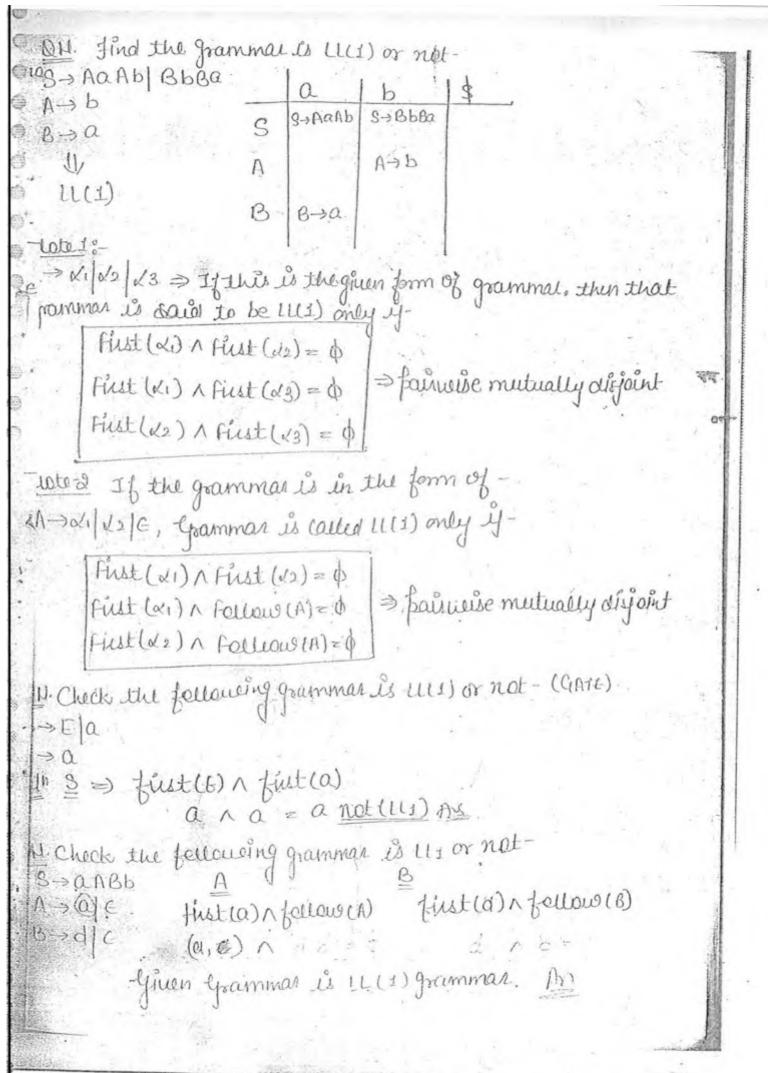


© Wiki Engineering

www.raghul.org

NORMARINA		
fairing table contain	maximum one cuty.	i OH
IN Construct LL(1) Bais	ing table - (0x) given gramme	ar istla or nos >1
€ > E+T T		A-> 1
T→ T*F F		8 → (
f → id (E)		. U
	1 . 1 . 1 . C	1 1 4 111
Eliminate left succursió	id + * ! .) 7
E -> TE' T	E-E->1E' . E->TE'	total
E'→ E +TE'	E >+TE	E'at E'at
r→ F.T' F	E	nomin
r'-> E *FT'	T 1-1-1 WE T-1-1	1
-> 101 (E)	T) Commercia	The The
	1 - Comment	T->G T->G
	FFid FIE)	
		1
and the follow	ing grammar [[(1) is not-	Totos
S-> A	1 a b d 9	\$ A-XX
B→A aBlAd	1	1
B → b	S	**
$C \rightarrow g$	A	
V a	$A' \rightarrow dA'$	A'→E
$S \rightarrow A$	A	H-7C
A-> aBH	В	In Cr
A' > E dA'		;→ E
B → b	COLONA	→ Q
C → 9 => LL(1) 9	60mmul	ot:- 1 1 2
ON Check the follow	ging grammer is U(1) or no	Lil c
S- AaAb BbBa		
$A \rightarrow C$	S S-AaBb S-BbBa	S->(
IN⇒€	A A+C A+C	A ->!
	A	B→i
	B B + E B + E	
		10
		1
© Wiki Engineering	Delication to the second secon	www.raghul.org

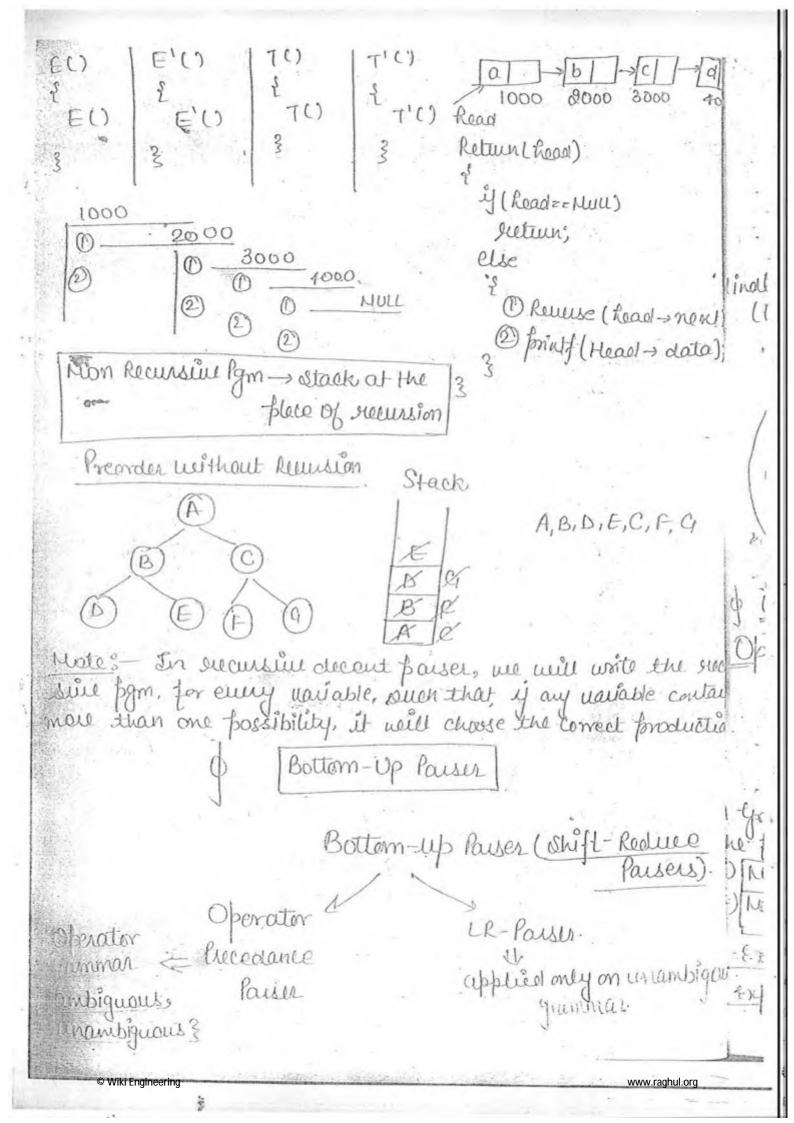
.

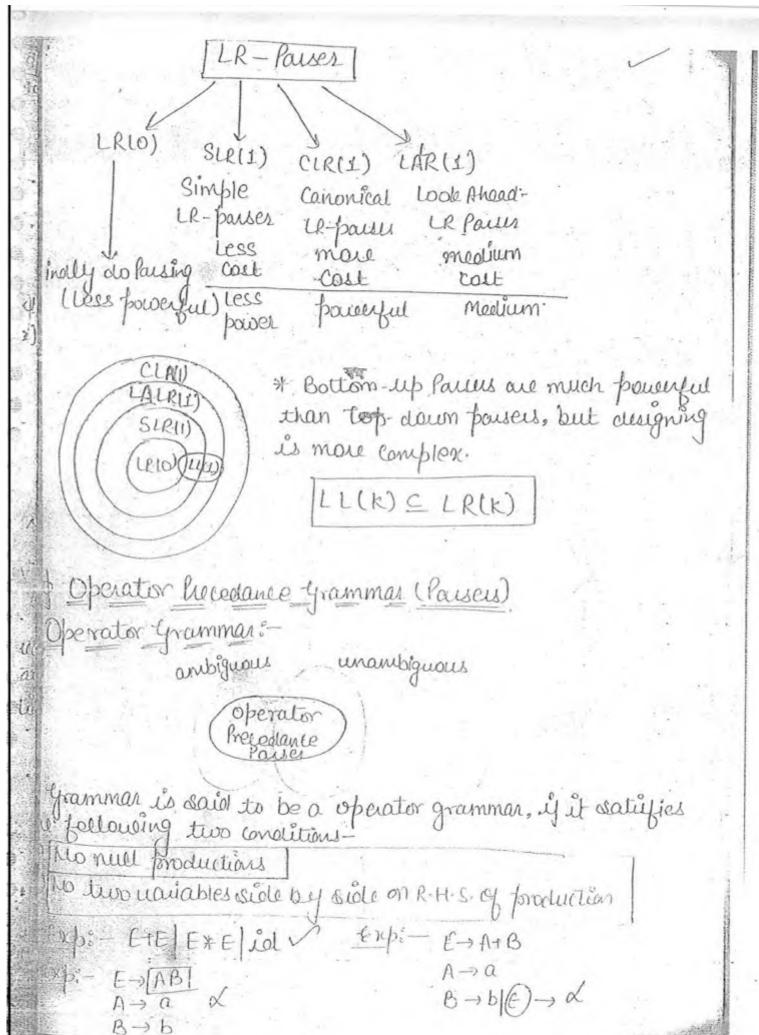


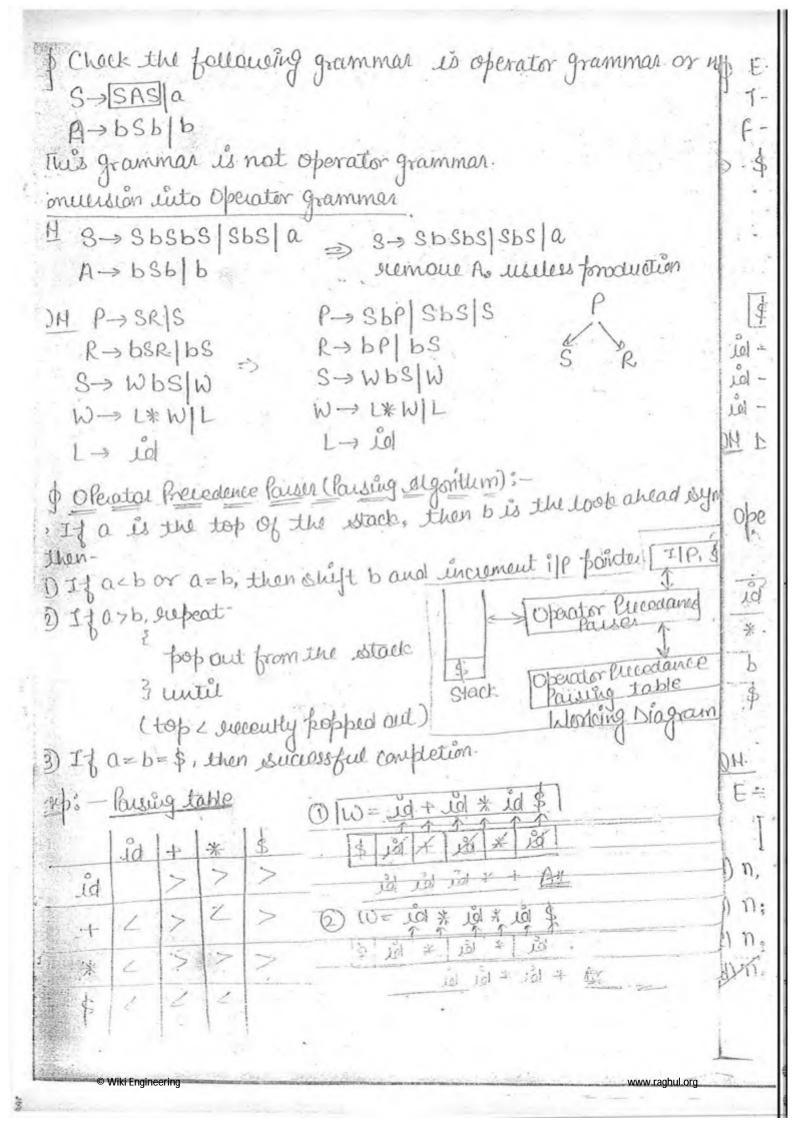
OH. S-> a.SA/E A+ CK finder) & follower (1) Find (A) & follower) a 1 0,\$ -6 C 1 \$, C = C This grammar is nobilles) grammar du OH. Check the following grammar is 11(1) or not, S-> AB A-Oale B-> b/E first(A) A feles(91) fult (b) a follow (b) a 1 6 5 - 0 b 1 1 1 1 1 This grammar is LI(1) grammar. dy 214. Yiven grammar is (1111) or not-S -> (L) |a 1->LISIS 1 tous (1) 1 (141) ((141)) ((141)) 1 (141) 0) * (A a = D . Thus) * Mote: - Any left recursine grammar is not [1(1). Hote-2: - Any grammar which contain left factoring is not ll! DIL. Construct (1(1) pawing table for the following grammal Exp: forgram -> begin of semi x end X → d Scmix | SY Y- ScmisylE

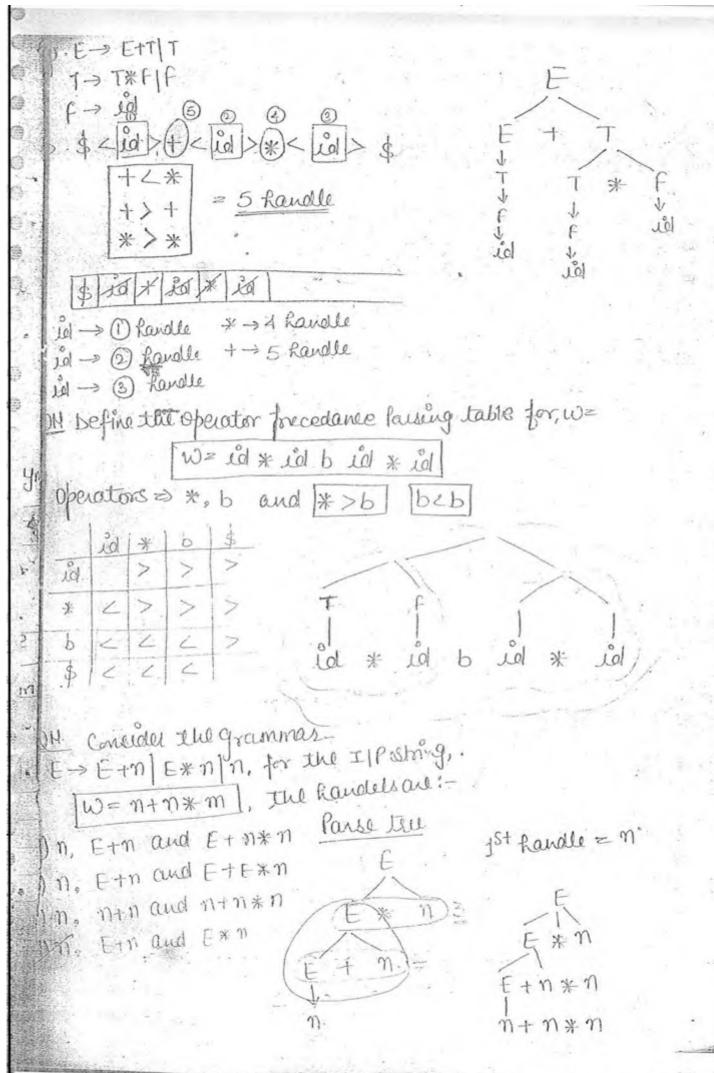
www.raghul.org

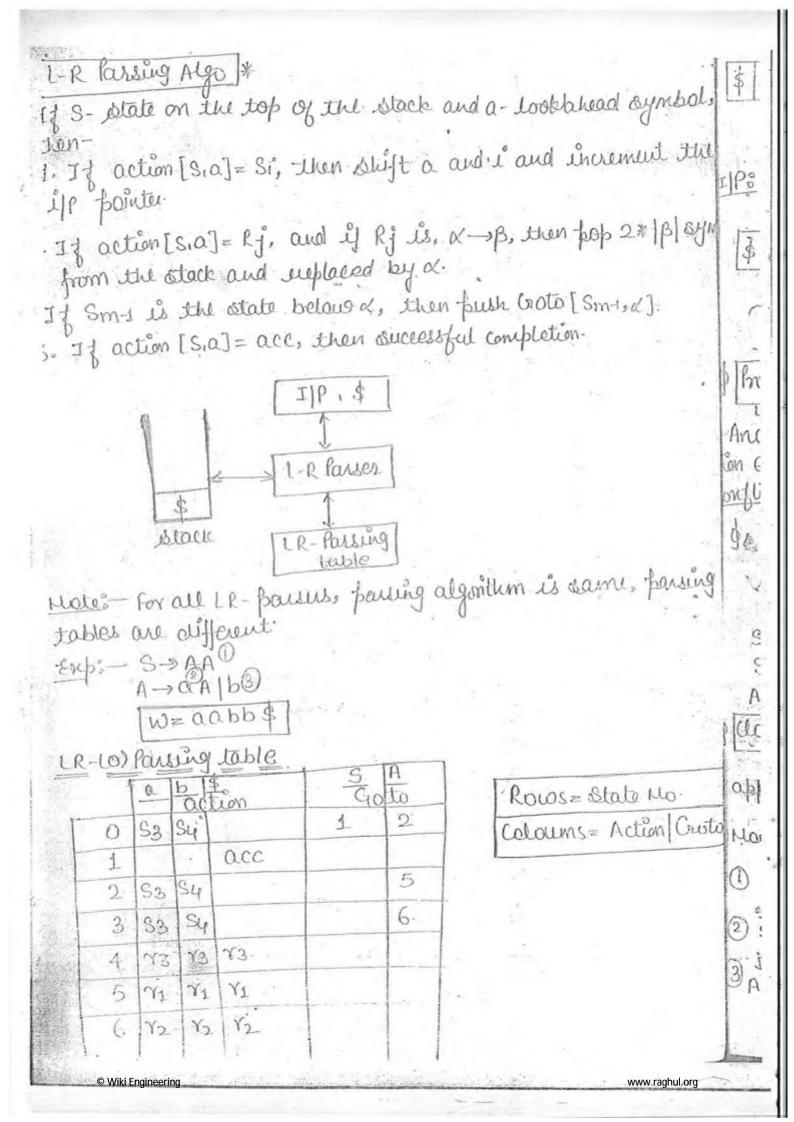
0							
0	Semi	begin	Id len	d S	1\$ 1	[
e pgram		0			1	55: K	
e X			(2)	(3)	1) LL(1) 9	rámmaz
9 · N	4		6		1	U	
14. H	nd first	and foll	ow for the	follow	ing gram	mar-	
, IE>	aA (E)	· 事	**	× -//.	V		
A t	E XE	E					
· Mu	3	fust	follow	1.0		8	
	E	a. C	14,0		A.		
		1	1	-45° 74	900		1
	A	+17.6	\$,)				
						1 2 1	
VIH M	Aich on	e 06 the	following	is true	d-		
E-	EXF	E+F F	,			1	4
$\Gamma \rightarrow$	F-F1.	ثط				/	A
·)) *	has h	igher free	colonce the	ant.			
3)_1		des.		* *			
) *,	- has	same free	edance	, - *		100	
		her preced					
13	1	r	-			1.5	
.d. 9	D	Reci	usine Dec	cent Pars	us		
Mexp:-	- E->1	E+T T					
		The state of the s	Stimin	ale	→ TE'	T.F. (
•	F->		left Recu	uion E	'> €/+'	1 E.	
			4 5		→ E *1	7	j.
					افا ج		: = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COMPANIES CO.							-3

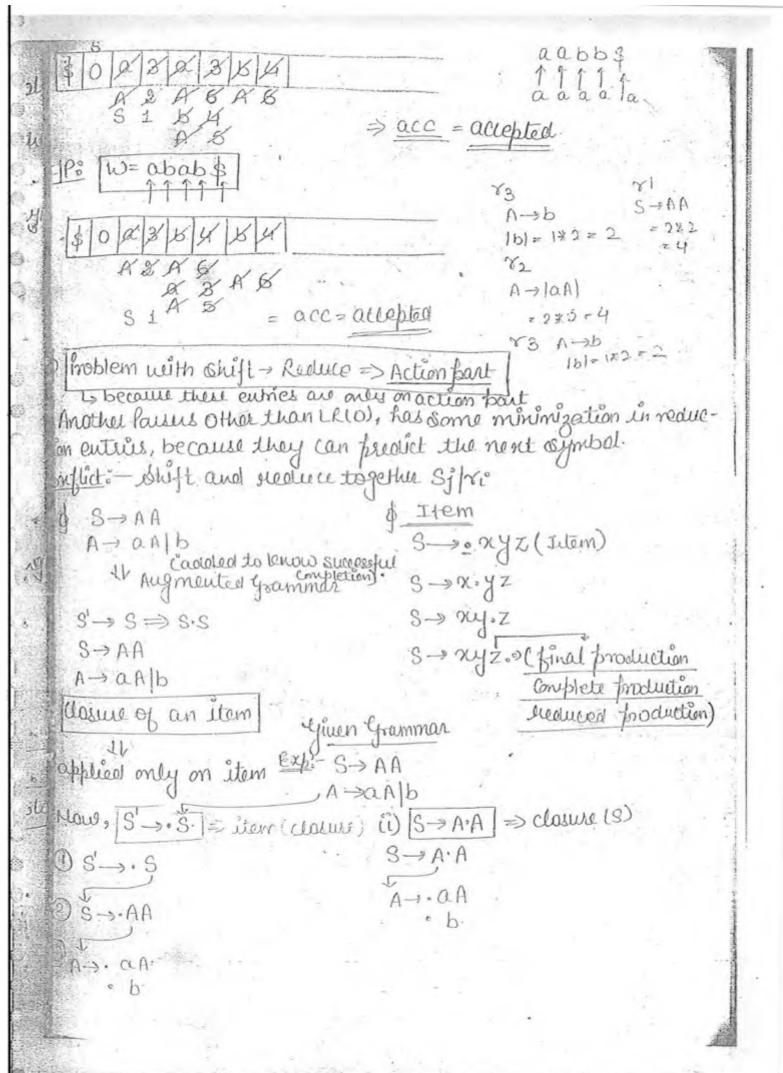


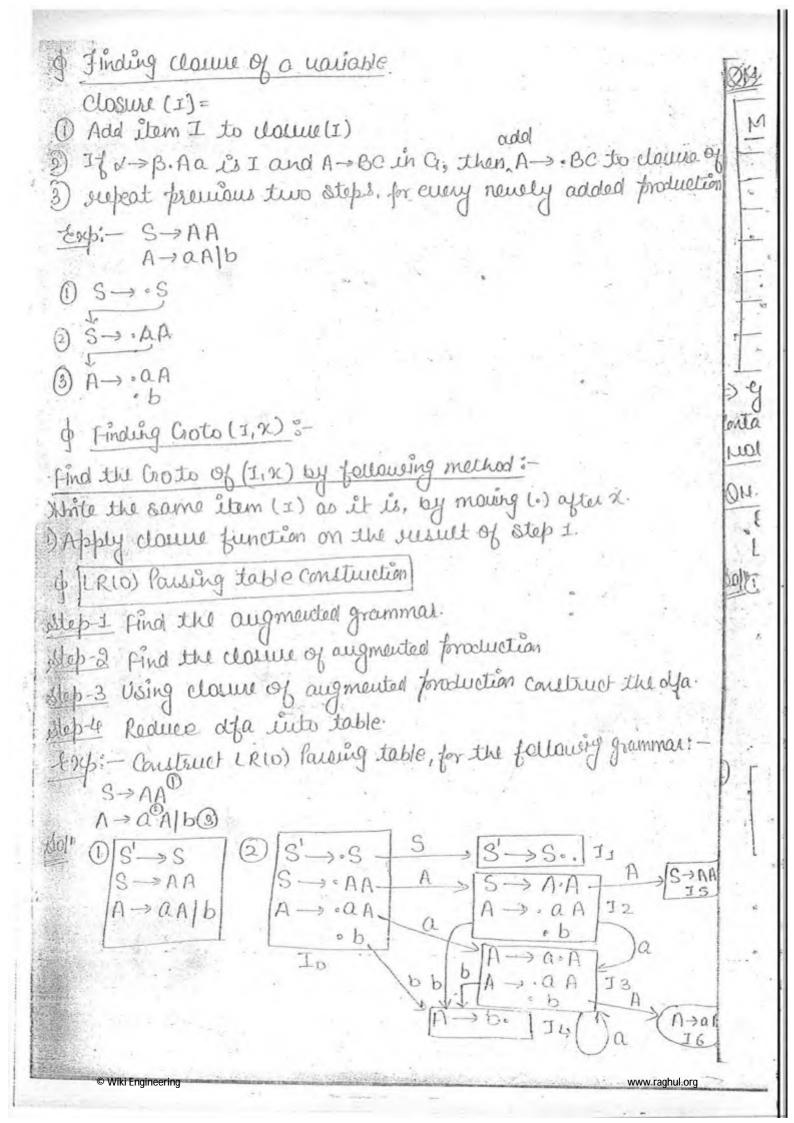


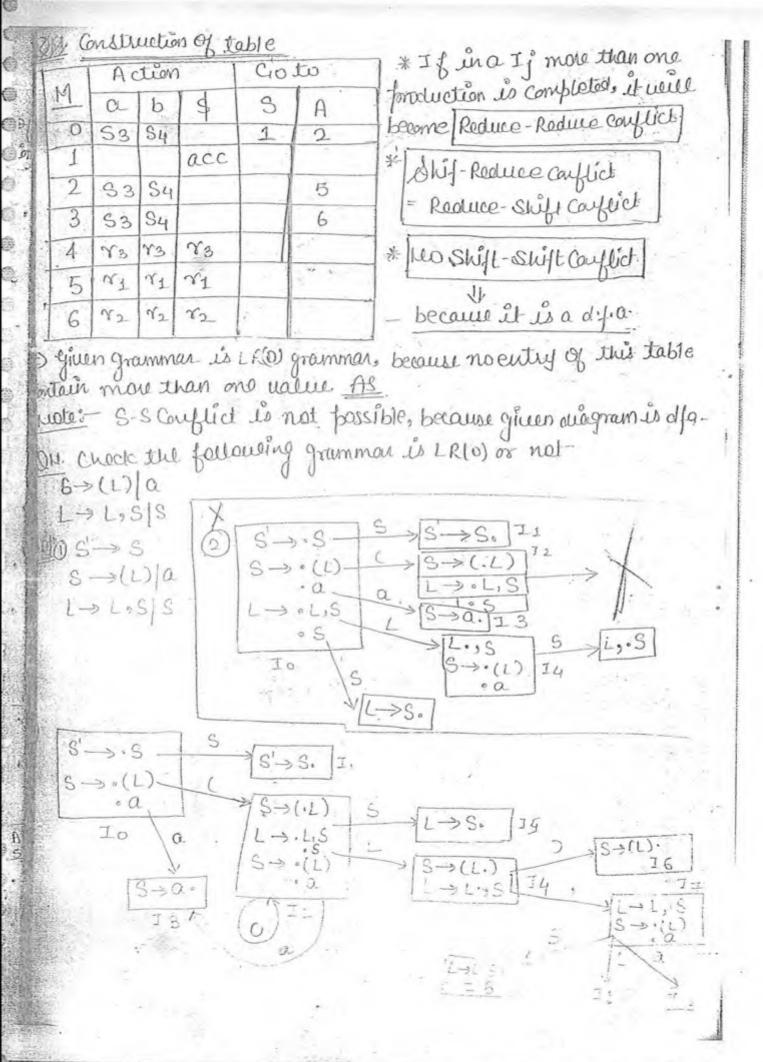






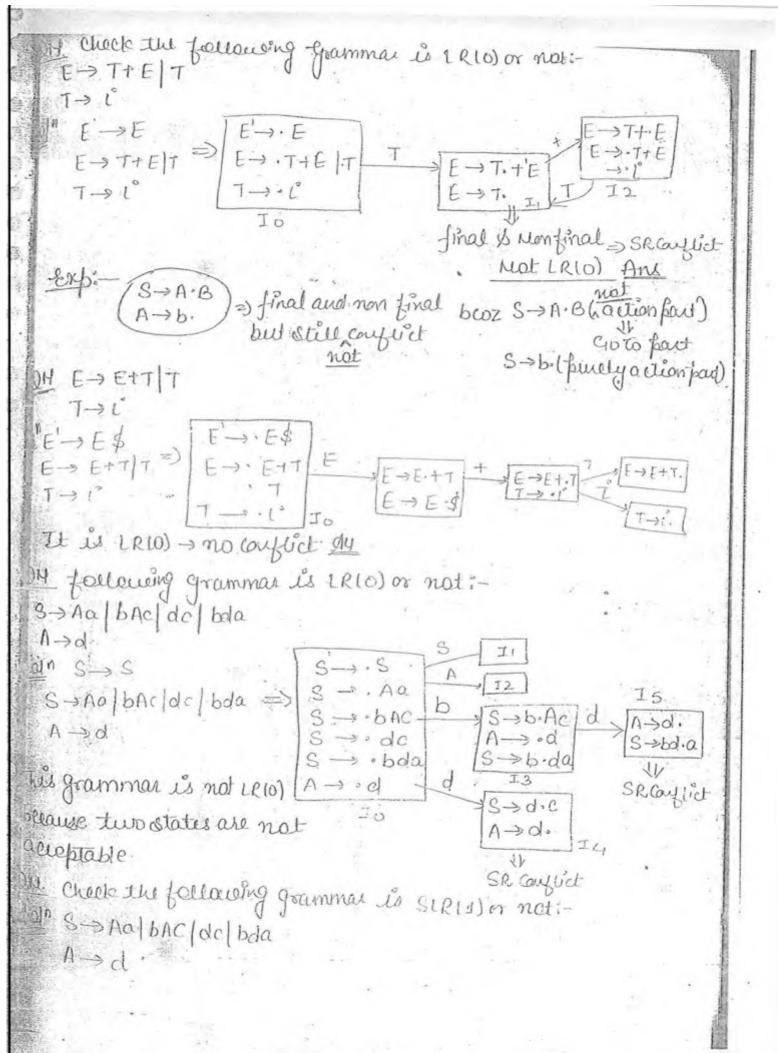


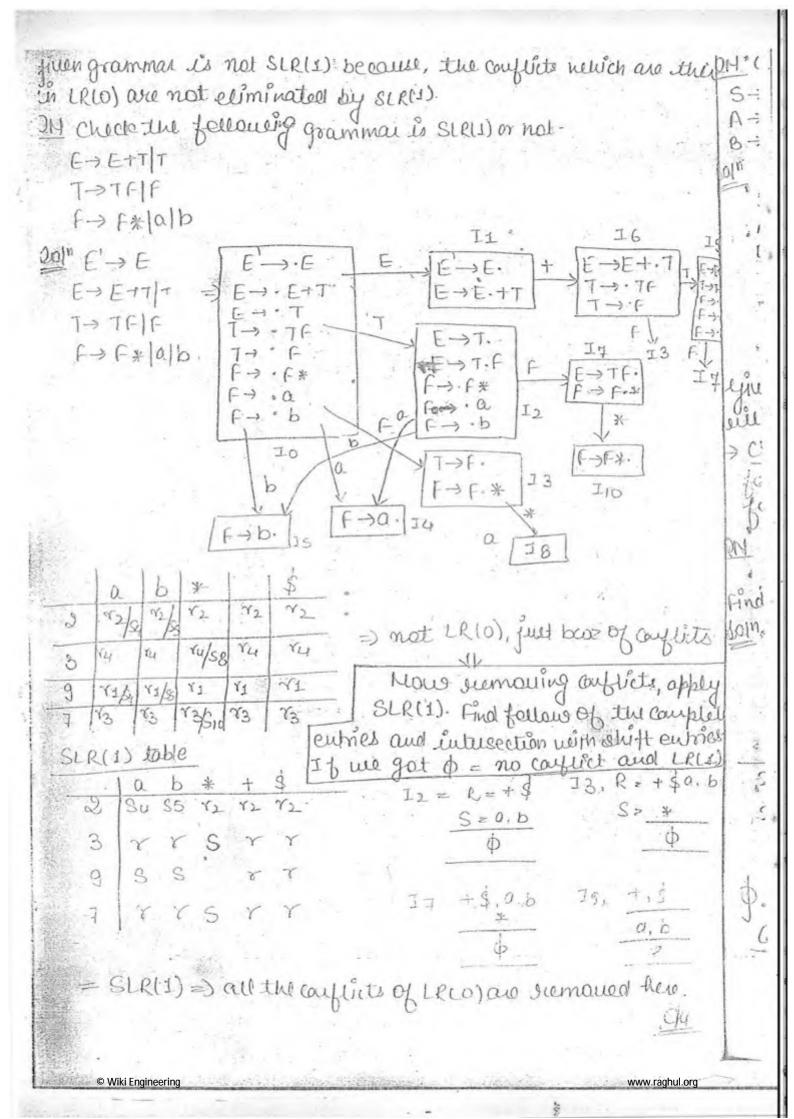


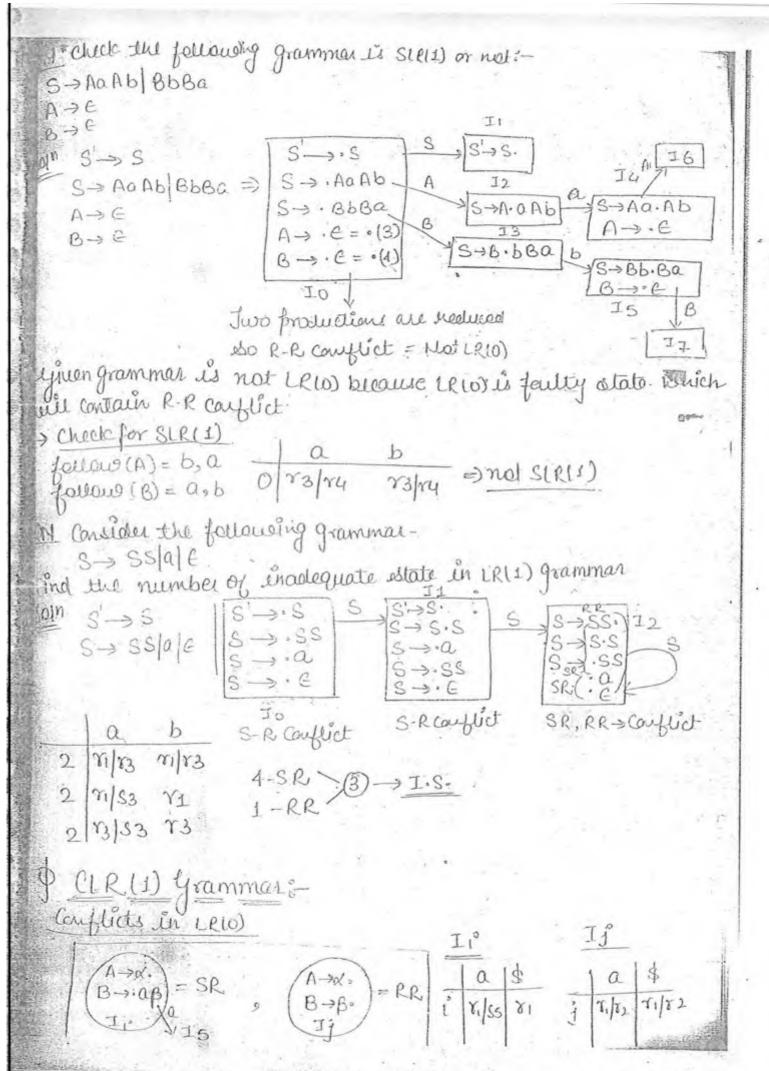


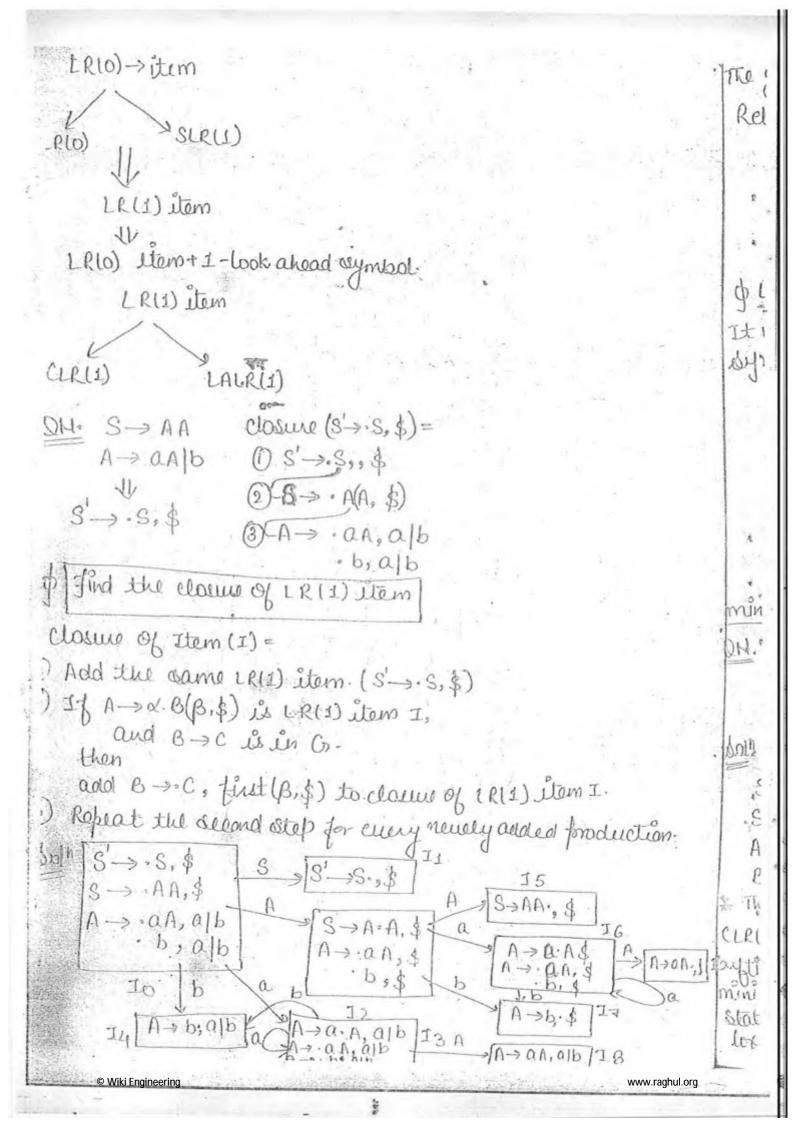
111	1	. /	actio	my.		Got 1	n	1		1		
W	a	C)	9	\$	30 1	L	1			1	
0	SB	S2				1				1		2
1					acc			1				
2	53	Sz			-	5.	4					
3	82	2	Y2	82	2.	2 1	-				10	
4			130	86	ST	40 V.					11/4	
5	84	74	·ru	Yu.	Yu.	1						
6	2	71	.x3	13	YI		1 4, 35				34	
7	83	S ₂		-		8			-	202	25	
8	83	3	83	3	83			3) LI	(0)	Garen		
	>8		4		.5]-	S	J = S->S-]					
S- S→		16	3	S ->		S abld	S -> S- 12 13 -> d · F A -> · b A S -> g · B	0		A.do	A A	7 1
S- S-> S->	dAlabaria baria	Cov	elī	S ->	o dal	aB) d	S -> S- 12 S -> d. F A -> b A S -> a. B B -> b B 13	6	SA	[.Ab	15 -	→ I
S- S- 3-3 We,	dAlabaria ball de	Cov. the	elte gju eta	S -> II Lith Lith Lith Lith Lith Lith Lith Lit	· dA[e e hun. S.	S-S- S-O-S-	b b b b b b b b b b b b b b b b b b b	SA	dA. da	15 -	1

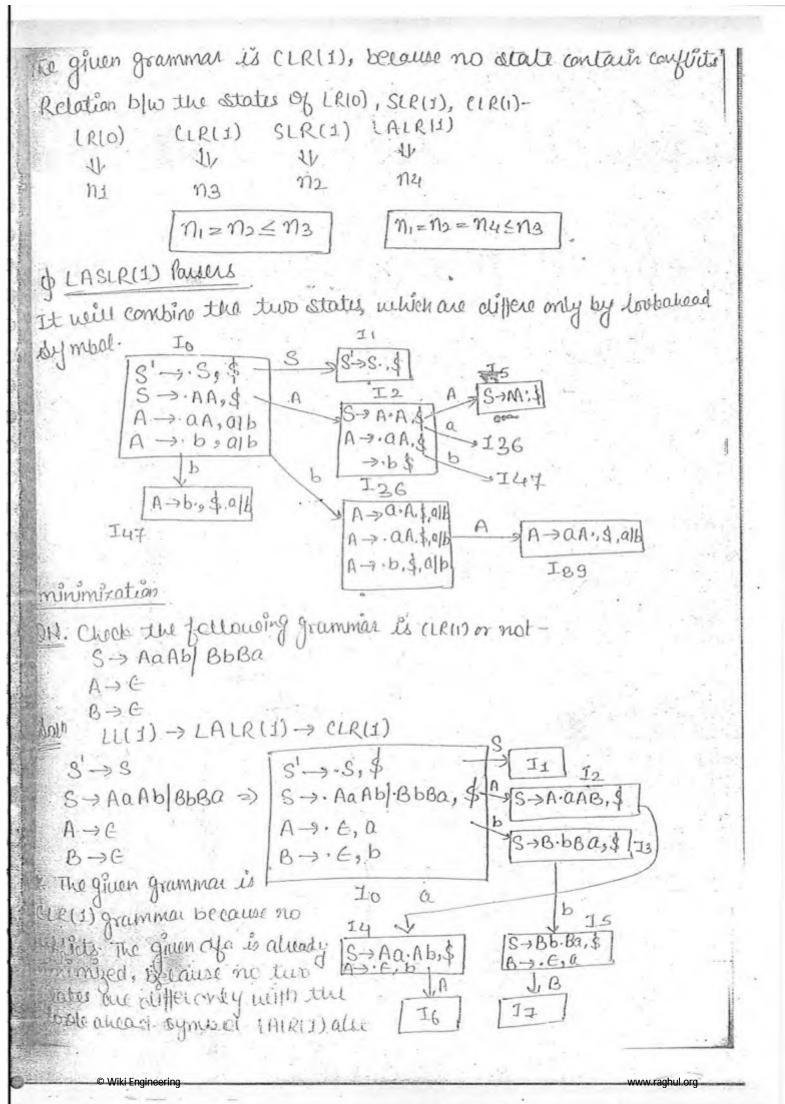
200

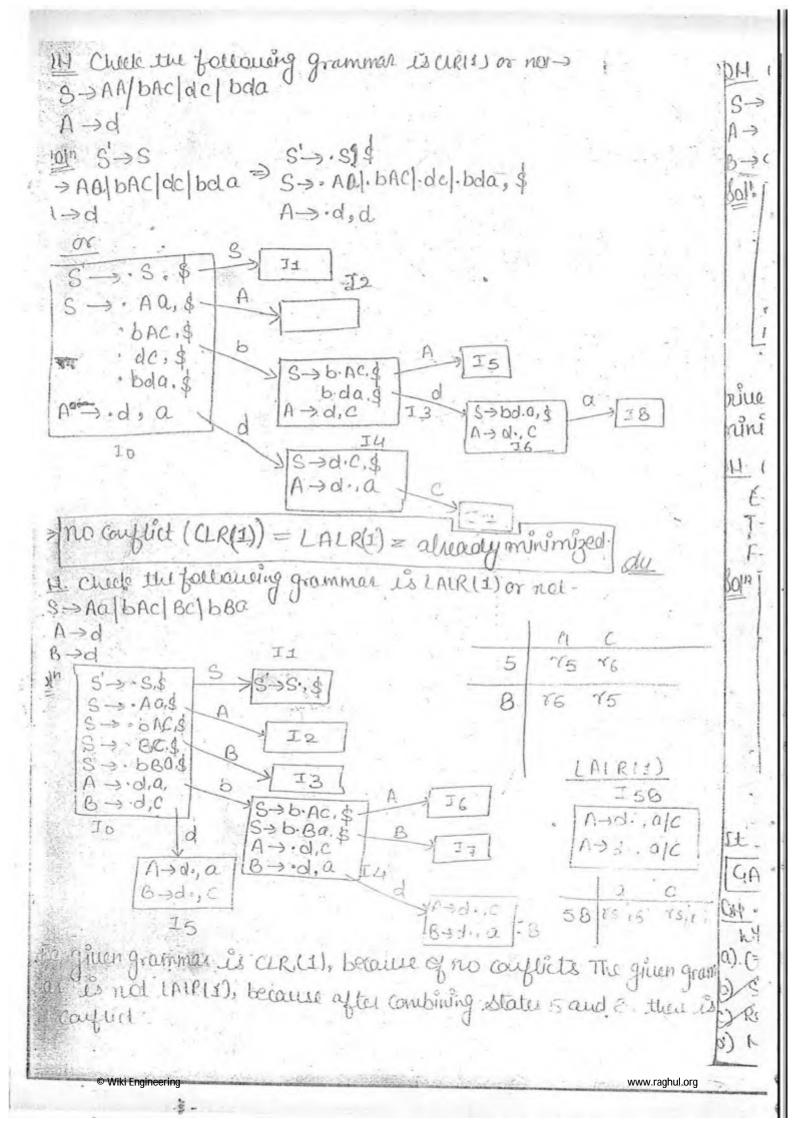


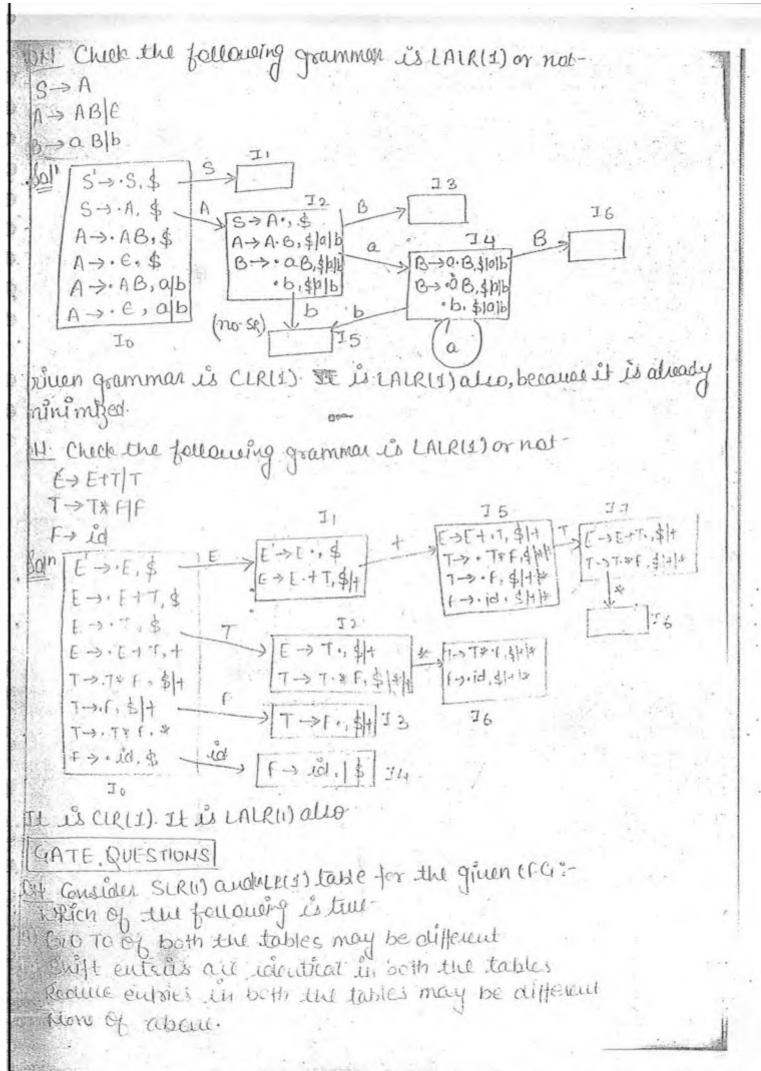


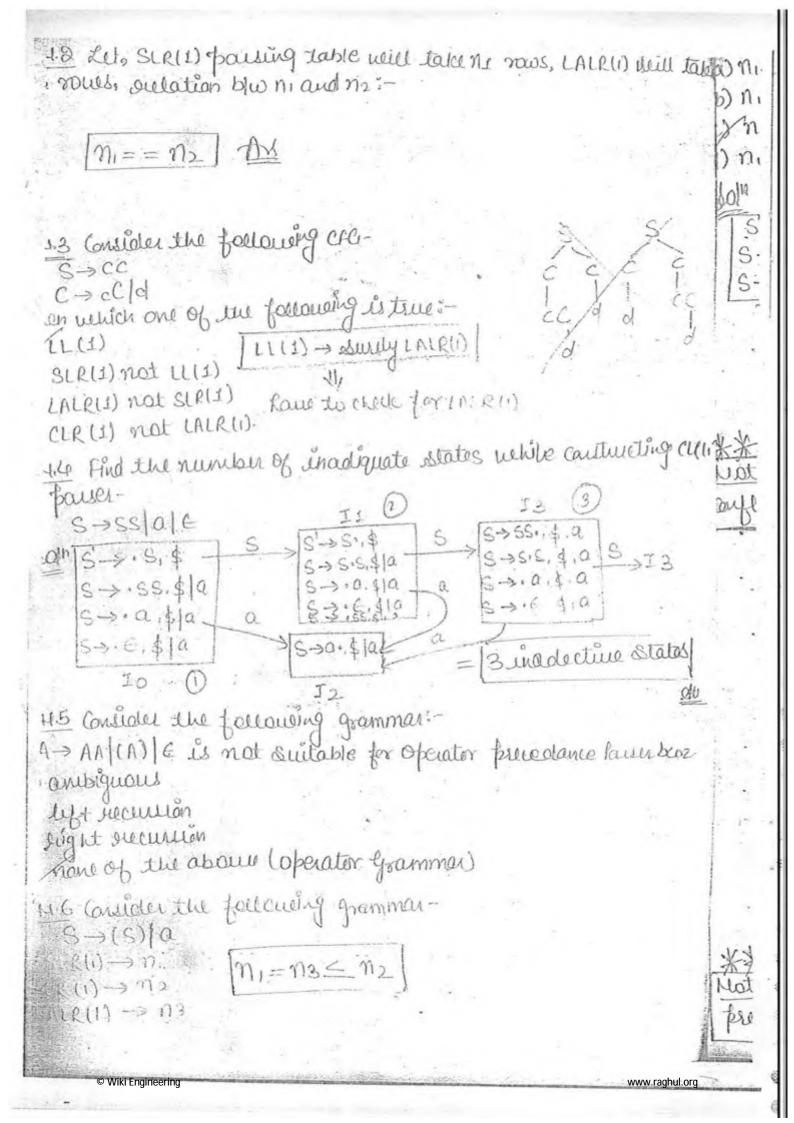


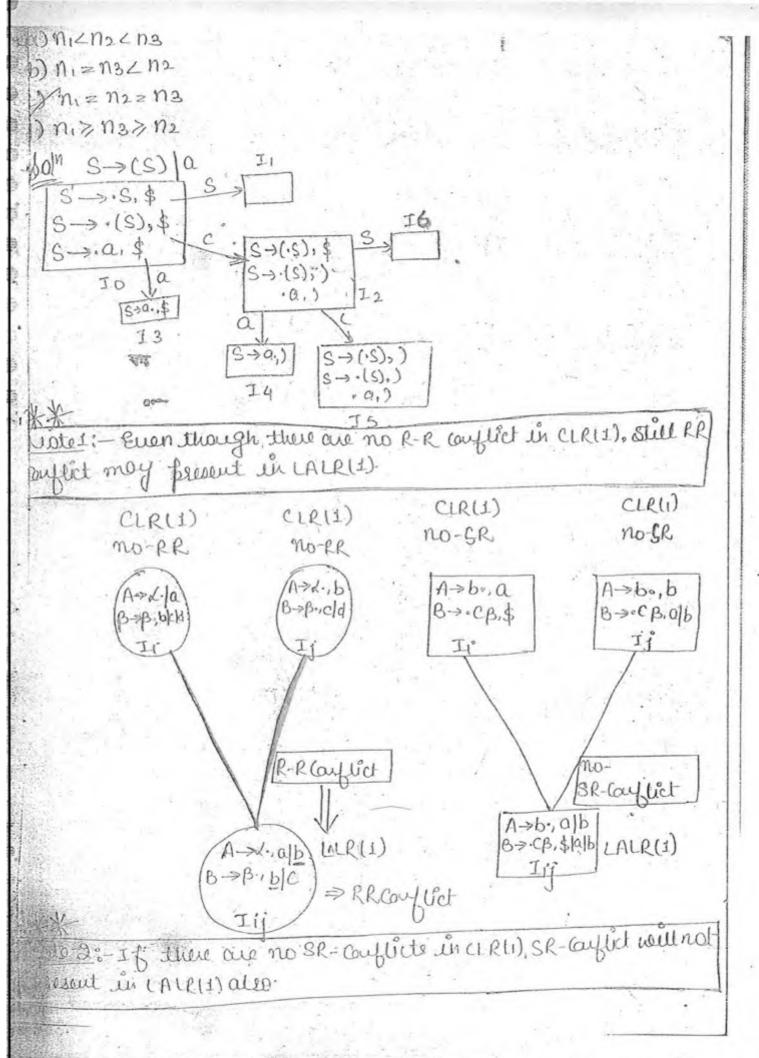


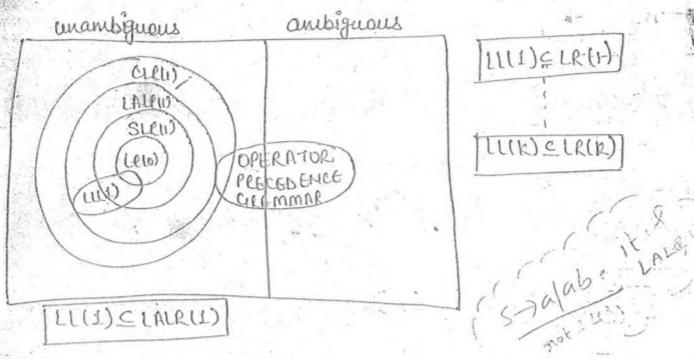












Mate-1

- 1 Bottom up forsers are more couplere to design as compared to T.D.P
- Bottom up faiser is accepting more no of grammars compaining with the top down pourse.

Size of Bottom up Pauser Lable = 2x top down fame table size