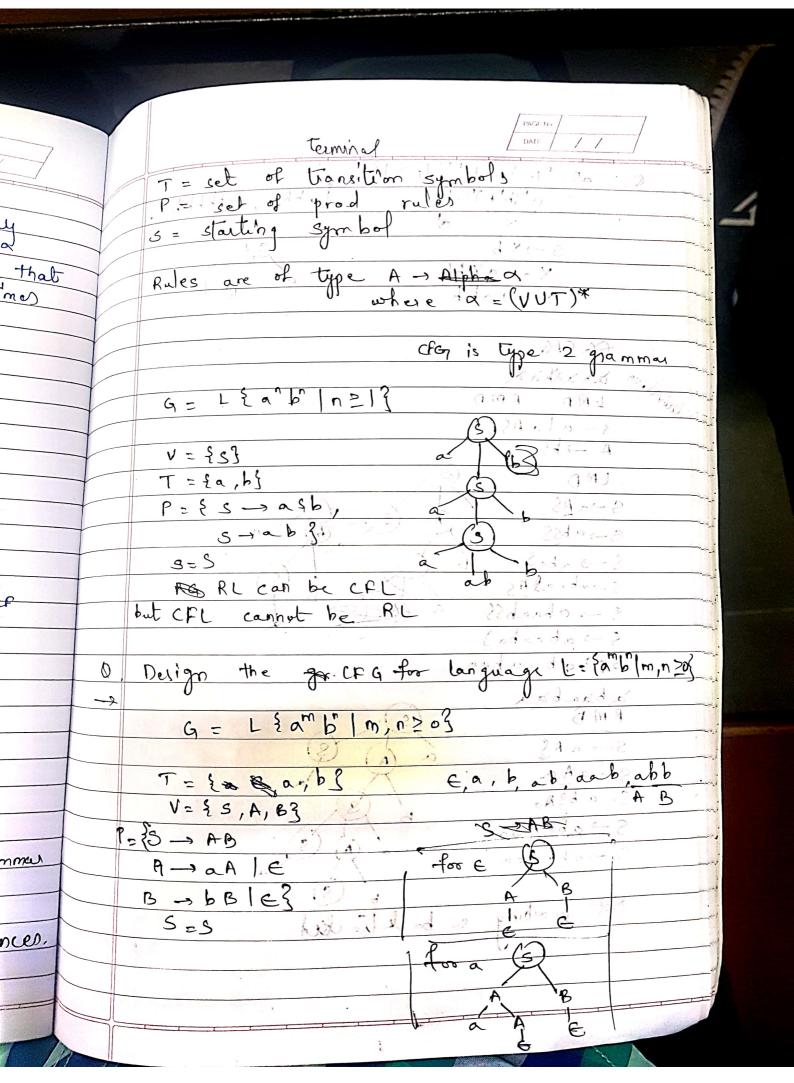
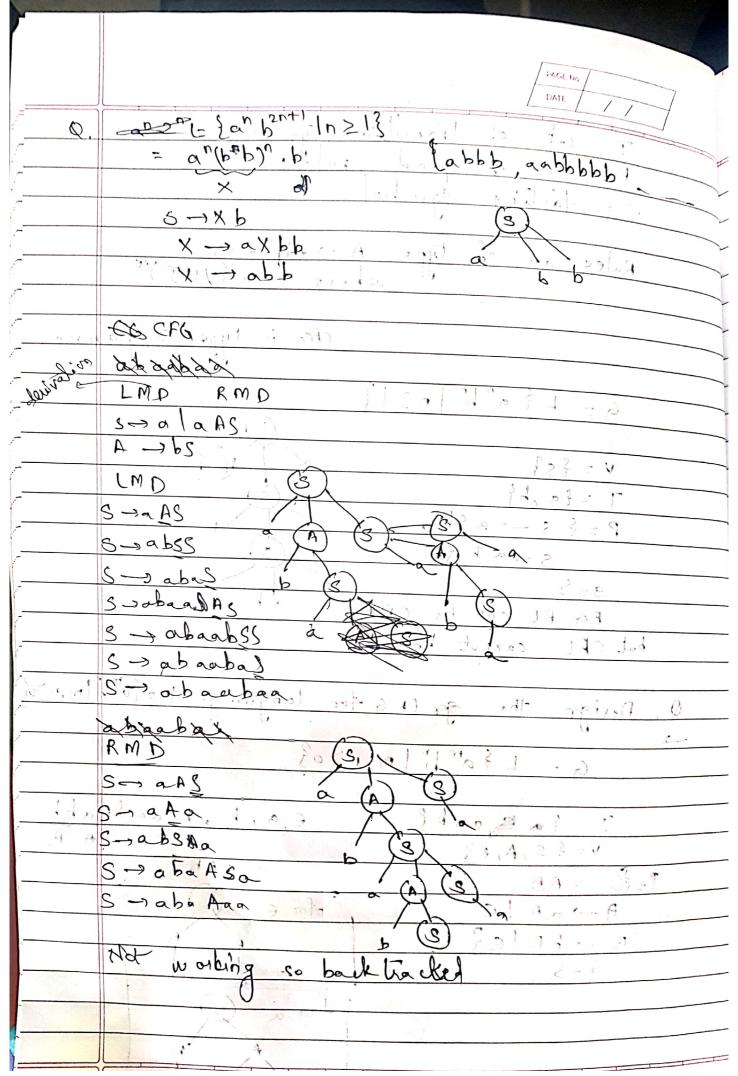
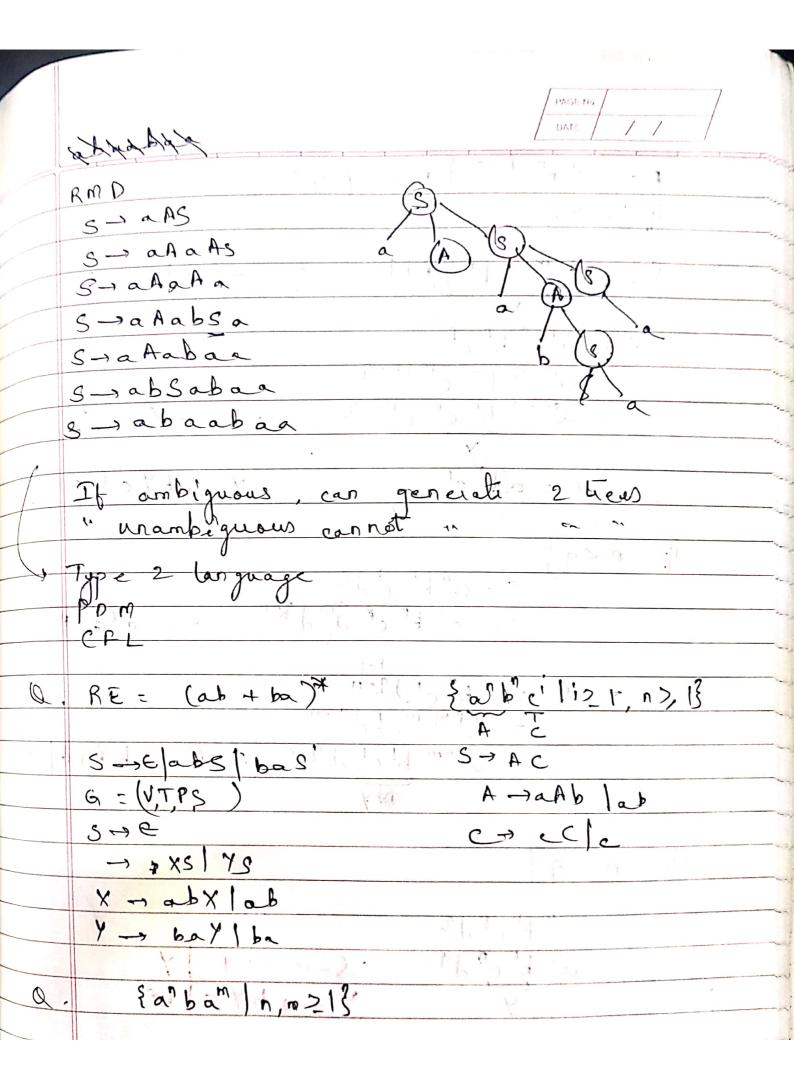
Pumping lumma of Regular sells  Pumping lumma of Regular sells  Pumping lumma of states that for a sufficiently  long string accepted by FSM We can find a  substring hear the beginning of that string, that  mour be repeated on pumped as many times  as you like & SHII the resulting string is  accepted by FSM.   Q L = {ah bm   n, m > 1}
D Assume that given lang is RL.  ② Given lang will pollow pumping lemma.  (3) FA, M= EQ, ZS, 9v, F}  n min no. of stater needed to start q-2p  m symbols string accepted by m/c
m symbols string accepted by m/c
$\frac{9}{5(90-9)} = 91 \qquad \frac{5(90-1)(1-2)}{5(90-1)(1-2)} = 92$
(5) if it k such that jek if 9; 9k  Contentary language to content free grammer
Grammar means the state of formal rules generating syntactically correct sentences.  The Crest (V,T, RP, S)  Verset of variables  Scanned by CamScanner

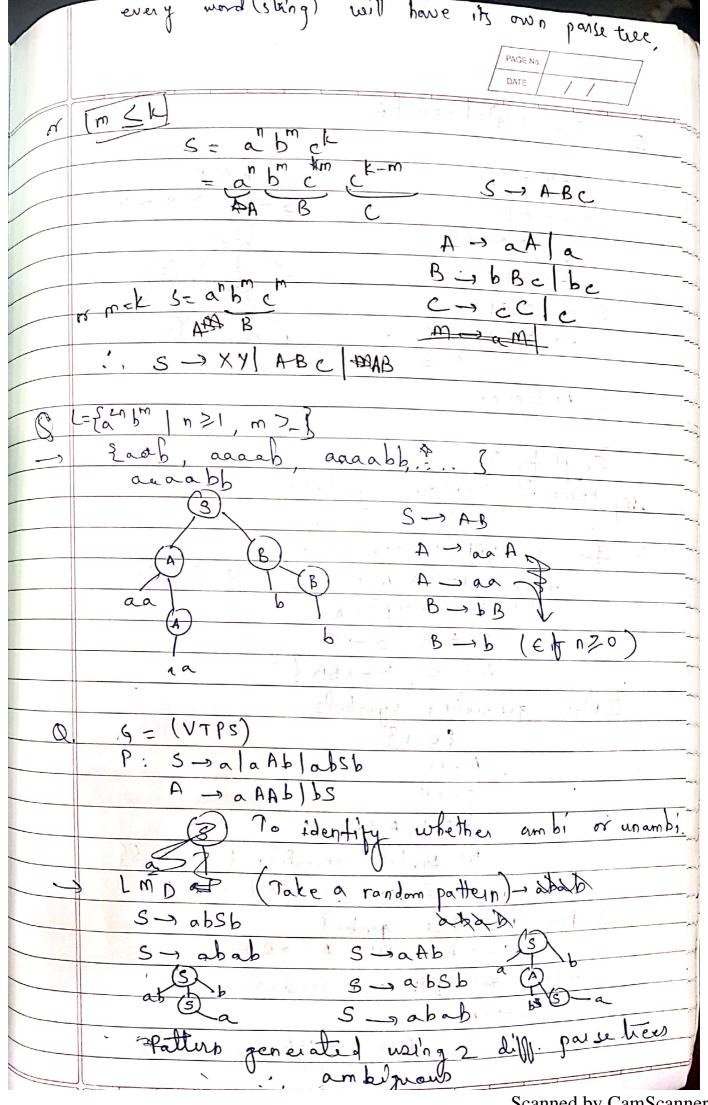




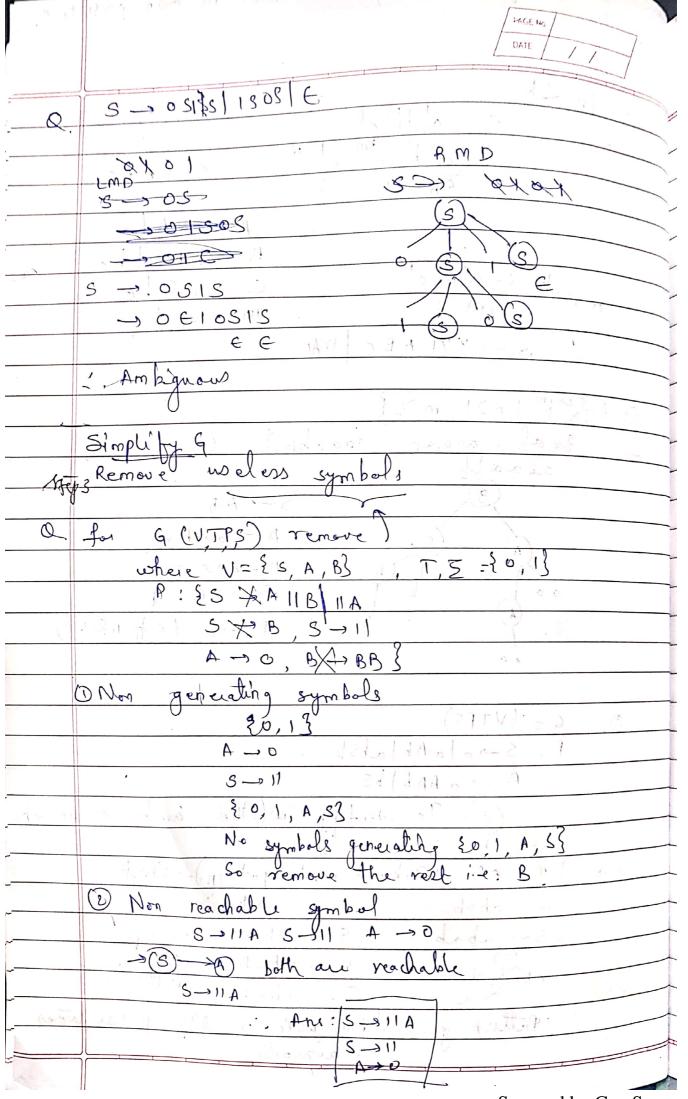


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$\times$
- A E & B CD
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m <q)< td=""></q)<>
MIN PI
3 = U B ( d L
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- bn cl d 2-m
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Del Pol-m Prof. J.d.m. 1 M + 3 P. W. 9 A
1. I AME A SELATION OF SELATIO
21TV) - 6
$- \frac{i}{m} = 9$
5 x 1 5 x x c-
S= abcolo dolydory
$5 = a^{n}b^{n}c^{n}d^{n}$ $= a^{n}b^{n}c^{n}d^{n}$
- a b c'd 1 S-s as D y
y 41-2646
Q, L= {anbmck n=mod m < k}
S X X Y
S=abmck X-axblab
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= abck Y - actte
XXX

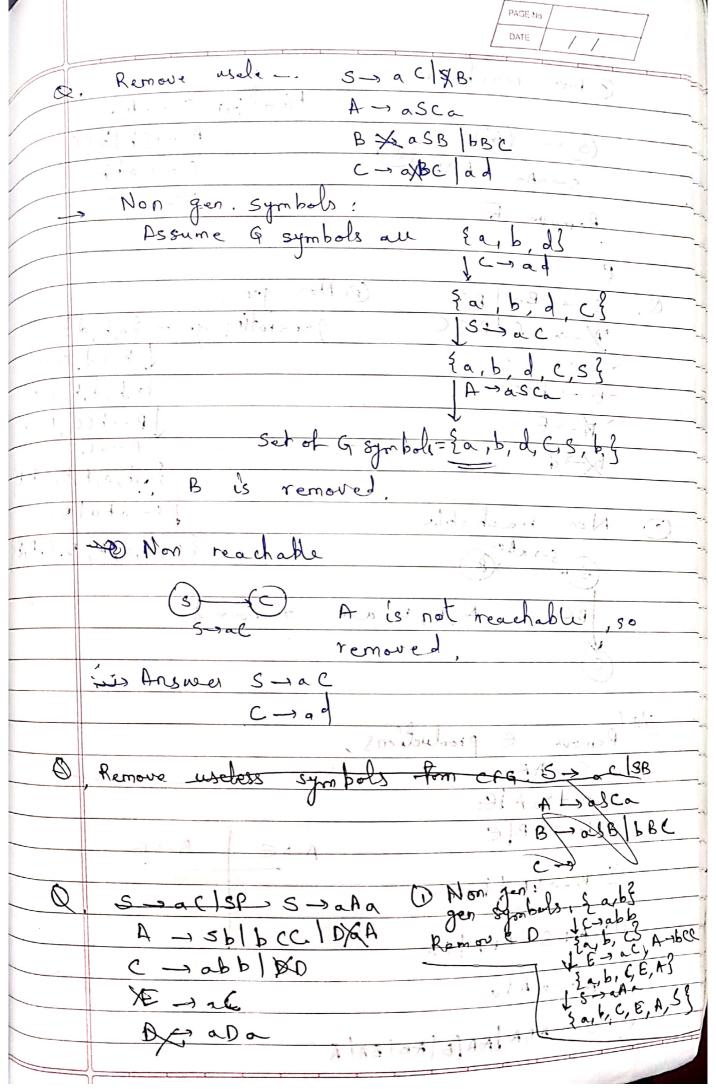
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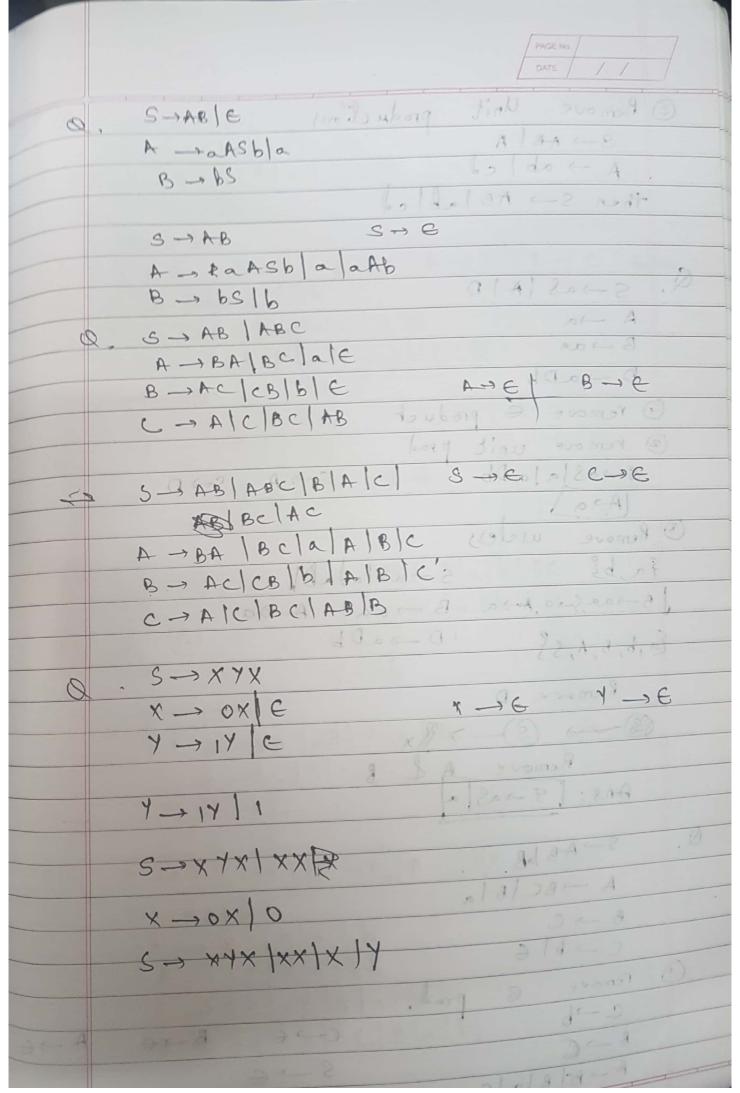
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	•	D 11	
Q,	S-aBa BC	1) Non jen,	
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	· C -> a		1 (C )
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	- E - 4	to po 10 to to to	
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_(2)	Non reachable		S-) abalbe
	s-raba	13 1	
	(s) <del></del>		{a,b,d,A,B,C,D,E,}
	1861		
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38.		•	
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14	(2) AnsaAla		1
72.A.			J s ( V)
- L	W S - ABRINA BIRB	BALA	1 - 1 - 21



PAGE NO.			
	74		
@ Remove Unit productions			
3-) ABIA Older	The second		
A -> abled			
then s-> AB lable			
3-2 3-4-5			
1- R HAD 0 124 04 A			
Q, S→a8 (A)D			
$A \rightarrow a$ Dayley			
15 -) as			
D -10Db 304 9/3/3/34-9			
O remove & product 34/23/3/4			
(2) remove unit prod			
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[Asa] SAISAISA			
(3) 8			
3 Remove uneless states de la			
{a,b} sinallalable			
B-)as, so, ho)a B-)ala A A+)a) 4-0			
- {a,b, b, A, S} D→aDb			
XXXC+C	A.M.		
Remove D.			
S) > Px 3 V1 - V			
Remove A & B			
Ans: [8-28]a			
Q, S -> AB JaB			
A ->BC/B/a O/xo-x			
B -> C			
D remove & prod,	ANE		
$C \rightarrow b$ $C \rightarrow \epsilon$ $B \rightarrow \epsilon$	47.6		
B → € 3 → €			
A -> BC  B   a 1 C			
S -> ABlaB   Ala   B	1		
	C C		

