

(d) CFG to CNF 5 marles "robot with" Feature Robot - Assemble a $(X_1 \rightarrow Assemble a)$ X2 -> no bot with Robot -> X1 model X2 Featur. X3 -> X1 mode) Robot -> X3 X4 S -> X3 X4 Feature -> Color "light and" Accesonin "and" Actions Featur -> color X 5 Accourse X 6 Actions X5 -> light and Featur > X7 X8 Actions X6 > and X7 -> Color X5 Featur - > X7 X9 X8 -> According X6 Actions -> Action "and" Actions X9 -> Xs Actions Actions -> Action X6 Octions X10 > Action X6 Actions & X10 Actions 3) Rogerson Ram no of 'a' to' and 'as and (a) open powentess > as 'a' closed paranter - 30 as 16' 1 b' in any order. €, a | € | €, 9 / €, 20 / € a 20/9 20 620/620 9,6/2 aalaa 6,012 6,6/66

$$\begin{cases}
8(90, 0, 70) = (90, 020) \\
8(90, 0, 70) = (90, 020)
\end{cases}$$

$$8(90, 0, 0) = (90, 020)$$

$$S(Q_1, \xi, \alpha) = (Q_1, \xi)$$

be in any form.

CFG = (V,T,P,S) T= {a,by S=S V= (s, [209 20], [209 21], [2,020], [2,021], [90 20 90], [82091], [8,2090], [8,2091]. [90 b20], (90 b 91), [91 b 90], (91 b91) 3

transition to production rules

[90 20%] -> a [90 a%] [% Zo%]

[90 296] -) a [90 a 91] [91 7095]

[90209] -) a [90 a 90] [90 209]

(Go 2091] -) a (Go a 91] (91 2091]

[96 a92] > 9 (96 a 96) [92 98] [20 a 20] -> a [20 a 21] [2, a 20] (90 a 2) -) a (80 90) [20 92] [26 a2] -) a [26 a 2] [2, a2]

[90628] ->b[9068] [8028] [90, ba]=(80, E)

(90 200) -> b (90 62) (2, 708)

[2078] > b [20 b2) [2 20 e]

9. 22] 3 b [2 bai] [2, 22]

[90 b9] ->6 [20 b2] [962]

(20 b2) -> b (20 b2,] (20 b2)

[908] -> b [90 b 9] [8 b 9]

(9069) 3 b (90 b 97) (916 97)

8(20,9,6)=(20,2)

[90b 90]-)a

[ga 96] -> b

8(90, 8,9)=(9,8)

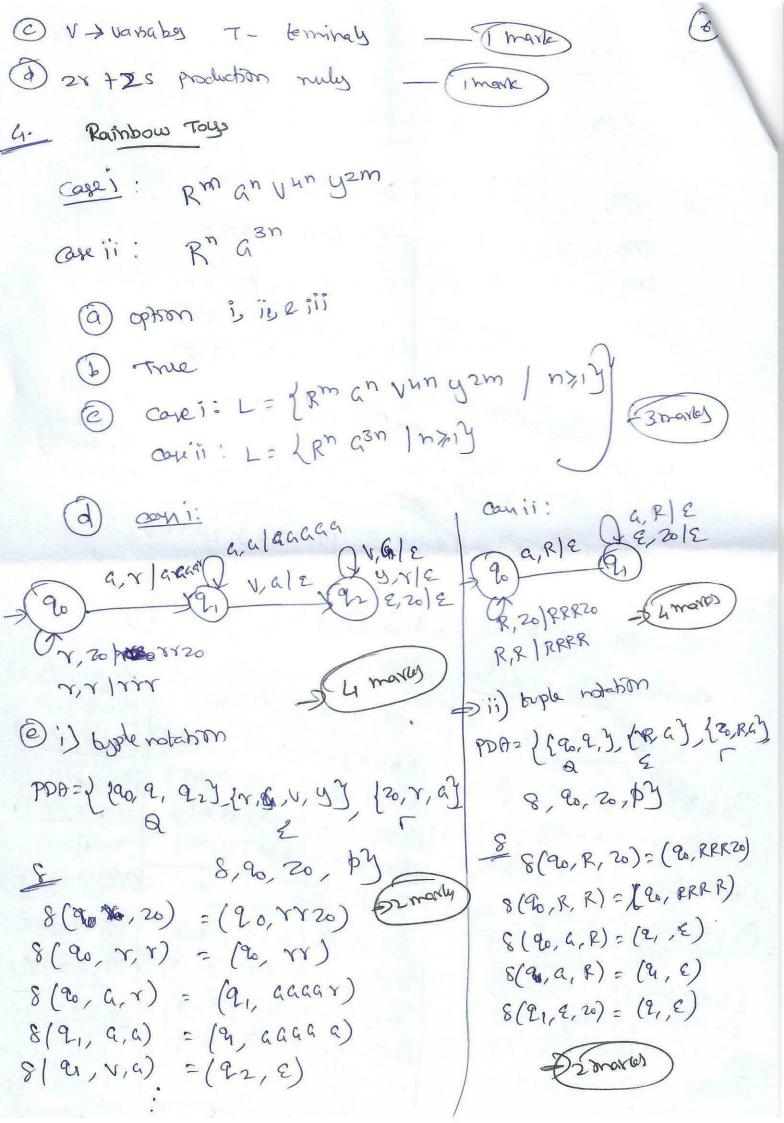
[9094] -> E

[(2, E, a)=(2, E)

(2,097)>2

8(21, 8, 20)-(2,8)

[9,209,] -> {



ile w= RRaaaa (ao, RRLLaca, 20) (90, Rauan, RRZO) (90, aaaa, RRRR 20) (a), aaa, aaa RRRR 20) (a,, aa, aaaaaaah RRRR 20) (91, a, aaaa aaaa aaaa RRRR 20) > at end offs stack not empty and harriston not to bral state. -) i/8 réjected.