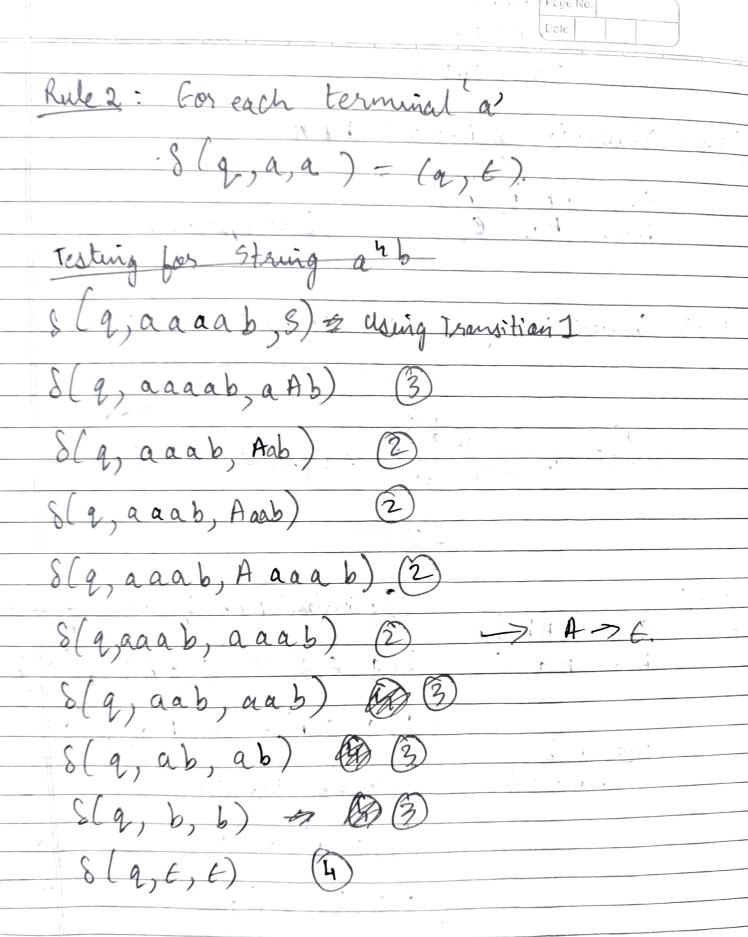
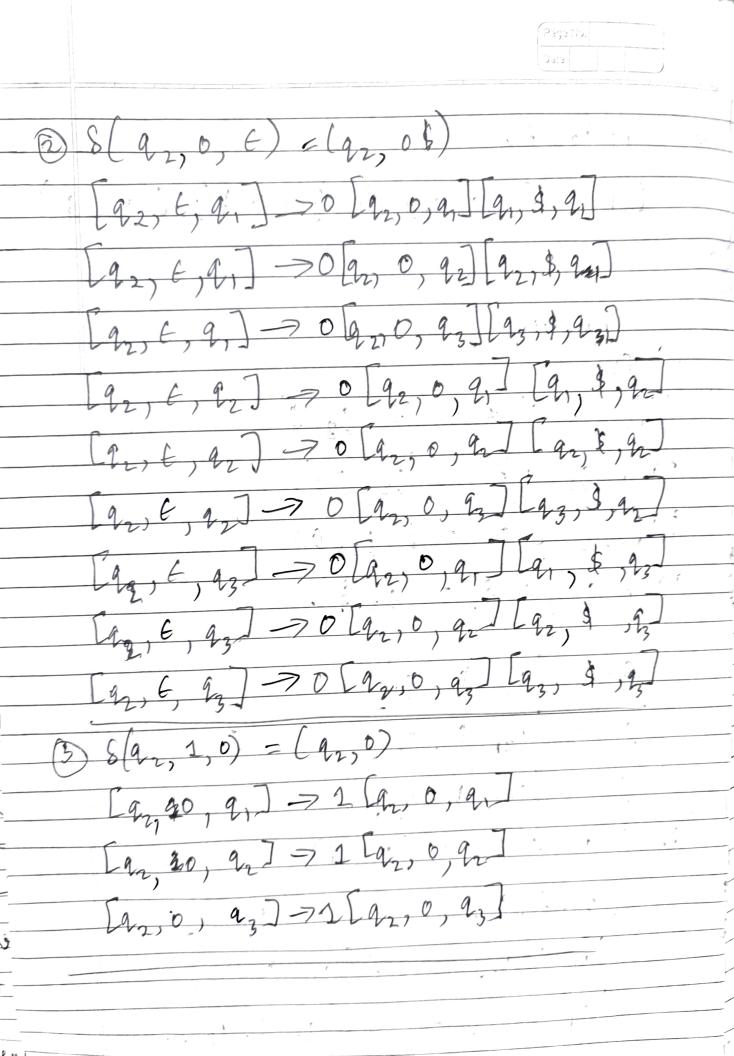
Name: Key ur Patel Roll no: 16010421073 Page No. 25/10/23 Batch: A3 TOC Tut-7 (9.1) Convert to Equivalent PDA S - a A b l b A -> Aa | eg G > Epsilon. (3.2) Convert the given PDA to Equivalent CFG $\begin{array}{c} 2, & \\ c, & \\ \end{array}$ Equivalent PDA box given grammers (Ans) $S \rightarrow a Ab lb$ $A \rightarrow Aal E$ $8(q, \epsilon, s) = (q, aAb), (q, b)$ S(q, E, A) = (q, Aa), (q, E)Test at b aaaab For non-terminals. (q, a, a) = (q, t) (3) (1, b, b) = (q, E) - (7) Rule 1: For each variables A 8 (9, E, +) = (2, B) where A -> B is a production grammas



String is matching

(ANZ) PPA to CFG \$ P = ({9,9,9,93, {0,13, {0,53,8,9, 9} (1) 8(2, E, E) = (22, 5) (D) 8(92,0,E) = (92,0\$) (3) $S(q_2, L, 0) = 4s(q_2, 0)$ (5) $S(q_2, E, \$) = (q_3, \$)$. S -> [2, \$, 2,] S > [221, \$, 22] 5 > [9,1, 4, 9,3] $08(9, \epsilon, \epsilon) = (92, \$)$ [a, E, 9,] 47 & [az, 1, 2,] [a, E, a] > E[2, \$, 2,] [91,6,93] > 6[92,\$,93].



(38(92,6,4)=(92,4) [98(92,6,4)=(92,4) $[92,4,9,1] \rightarrow (92,4)$ $[92,4,9,1] \rightarrow (92,4,1)$ $[92,4,9,1] \rightarrow (92,4,1)$

DEG.