Date: / / Page No. Chapter-14 Pushdown Automata (Rushdown Stack + Finite Automata) R.B. > fruite Regular language (R.L.) Automata (F. A.) machine that accepts RL CFG CFL > PDA (Pushdown Automata) (context free language) machine that accepts (FL ton-Regular 19 eg. Palinduome, equal a and equal b,

anbn, etc.

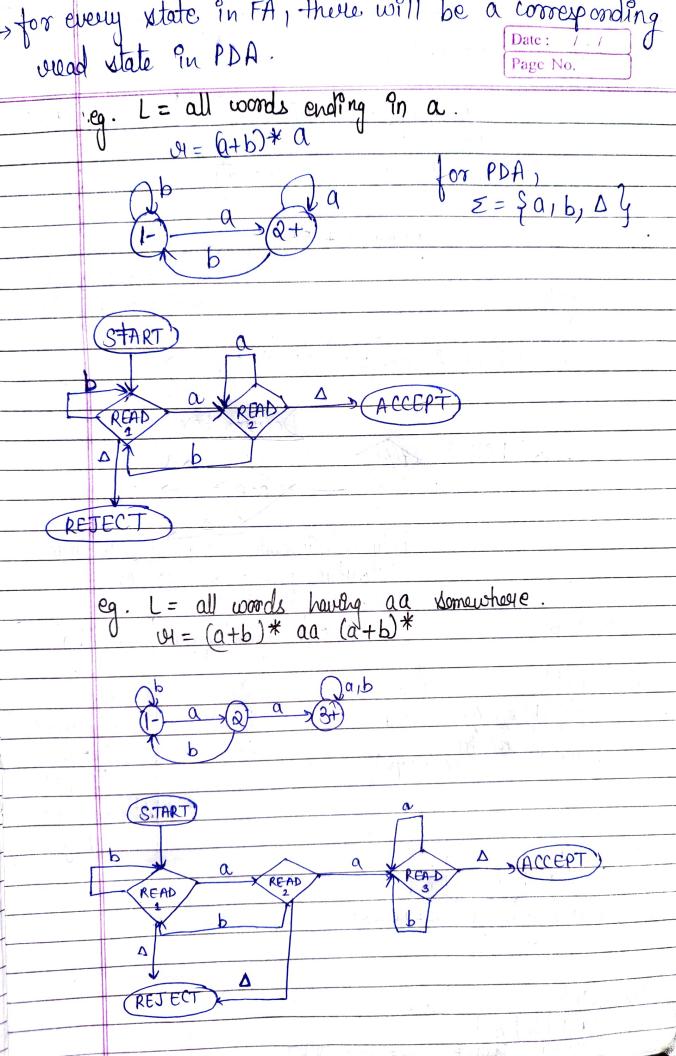
for anbn Palindrome equal alb

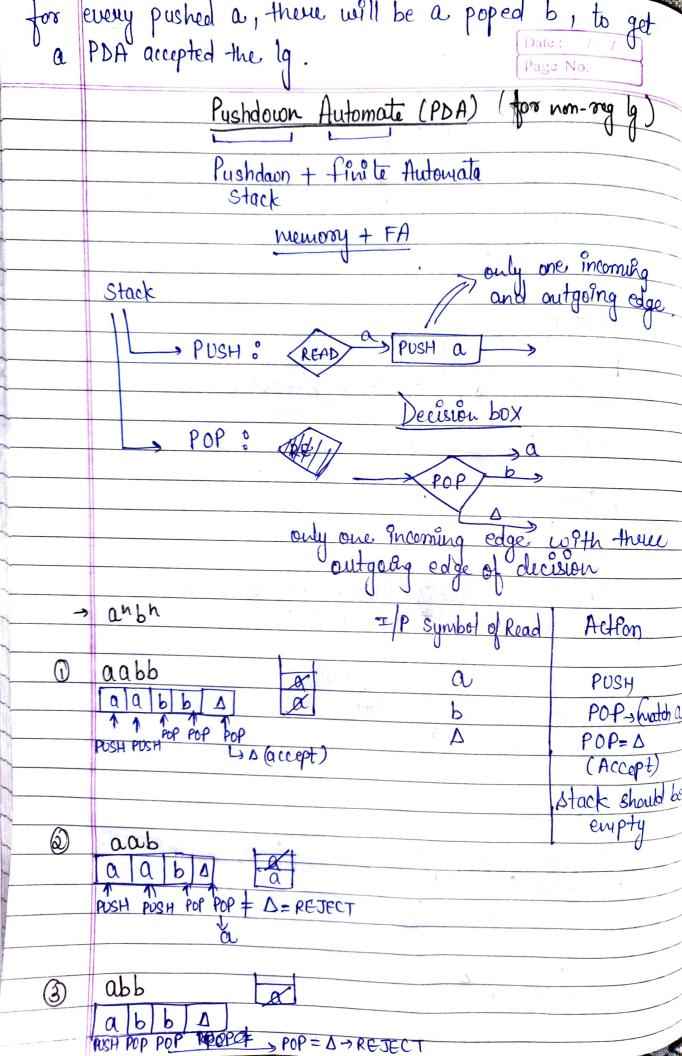
S-asb S-asb S-asb

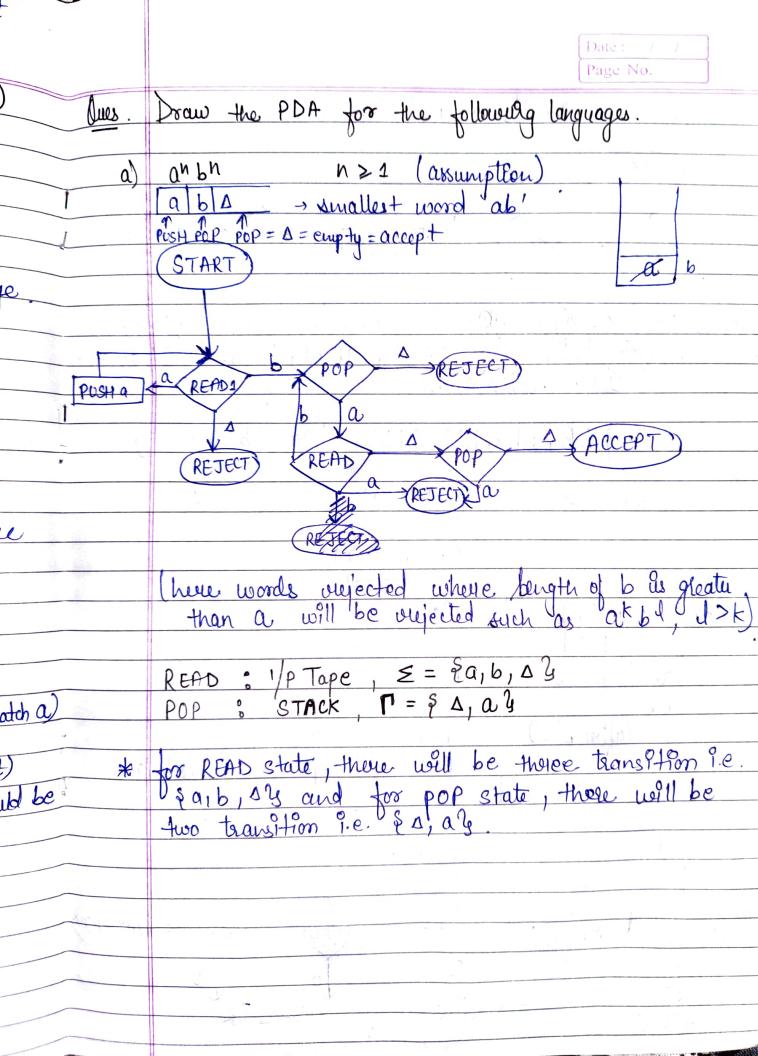
S-> A S-bsb S-bsa

S-> albla S-> A FA * Write down the CF4 for non-regular 19 at -> vehous p is a point no no CF4 an br cn no CF 4

Up tape - It ûs tape having inpute and infinite dun un one Page No. CF4 = all regular 19 + some non-regular go (He -> FA -> CF4) PDA (Pushdown Automata) * PDA (states) [Flow Chay+] Initial (start) no incowing edge, state exactly one outgoing edge. one or more incoming edgy \rightarrow (Accept) final state (F and no outgoing edge (Halt state Jonfinal one one more incoming edges Reject state and no outgoing edge. → can be single vieject state or can be multiple vieject state for every State of FA, you Real wead a symbol and branca to anothey schull study) Accept Reject. State es! L=all words ending in/a In PDA, I/P string is stored in a 1 P tape refinite un 1 direction wided into cells initialize, with A>> blank 9







Date: / / Page No. Ous. Determine the 19 accepted by PDA. START) b pust a READ 9 bb, bba, bbb, bbbb, bbaa, bbba - - 4 Draw PDA for an bm an , n, m > 1 aa bb* aa logic: IP Symbol
Read

O a lbefore b's)

D b2 Action. PUSH a (after b's) POP -> (match a) POP = A (accept) albao START READ READ READ REJECT RETELT)

