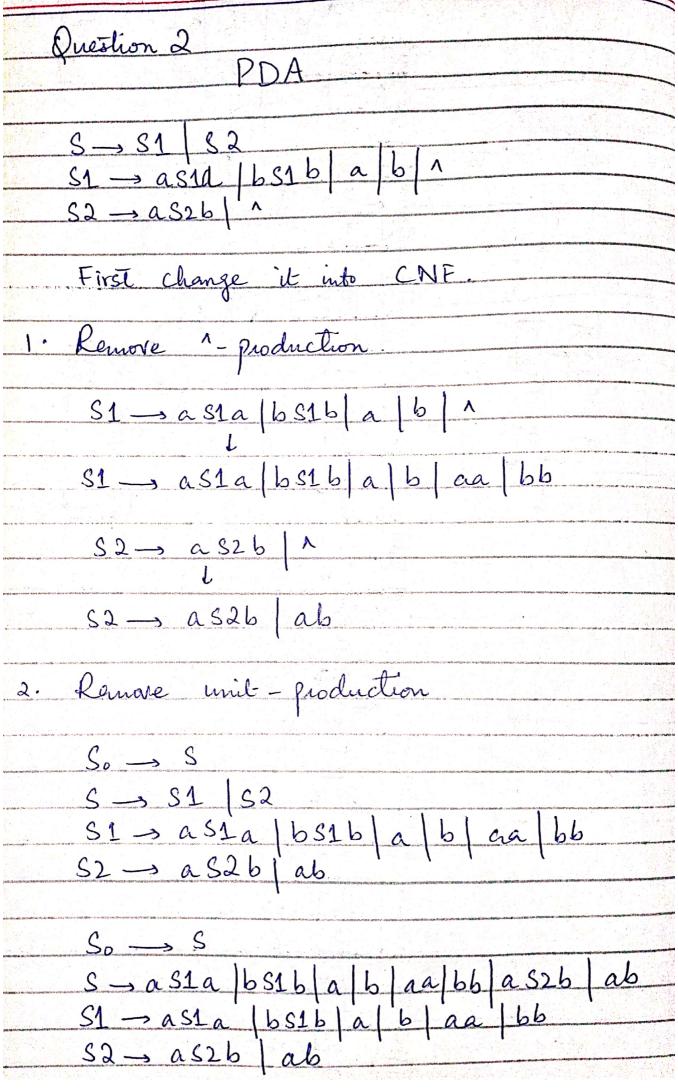
Momina Atif Dar P18-0030 Section B

Question 1:
words. {1, ab, a, aba, aabba, abaa, abaaa, abaaa, abaaa, adabbba, abaaa
$S \rightarrow aSbB B ^{\Lambda}$ $B \rightarrow aB ^{\Lambda}$
(3) L2 = {WE E* W is a palindrome.
words = { ^, ca, bb, a, b, aba, bab, abba, bab, aaa, bbbb, aaa, bbb }
$S \rightarrow aSa bSb bB aB ^{\Lambda}$ $B \rightarrow bB aB a b A$
$(3) L3 = \{a^{i}b^{j}a^{k} \mid j=i+k\}$
words = {^, ab, ba, abba, aabbba, abbbaa, abbbaa, aabb, bbaa]
$S \rightarrow aSa \mid B$ $B \rightarrow aBb \mid bBa \mid bbB \mid A$



S1 -> as1a | bs1b | a | b | aa | bb S2-3 a S2 b | ab So - 535153 | sys154 | a | b | \$353 | sys4 | \$3 \$5254 | 5354 S -> @S35153 | S45154 | a | b | S353 | S454 | 835254 | \$55354 SAME STATE OF THE PARTY OF THE \$1 → S3 S1 S3 | S451S4 | a | b | S353 | S454 S2 -> S3 S2 S4 | S3 S4 84-3 h S1- S583 S684 a b S383 S484 S2 -> S754 S354 S5 -> S3S1 S6 _ S451 S7 - 8352

