Khizer Waroed (01-134192-056) Samama knan (01-134192-075) Zchaib Malik (01-134192-0750) 120 Shahzaib Iabal (01-134192-106) Zainab Taria (01-134192-090) Q = 15-Ans: - Binary alphabet = 20,17 context free grammar for w where the length of w is odd and the middle is 0. W -> OLO | OL1 | 1 LO | 1 L1 | O this language satisfies given condition. Q:2:-Binary alphabet = \$0,13 is a palindrome SO -> 1501/0500/0/1/E This language satisfies given condition.

b, €/€ b 8 1 b (a, ale a, E/E 6, 2/8 390,91,923 2 = {a, b, e} F = 92 Fransition function = QxT