{(a+b)* => a x /b x / E } 2) construct CFG for the following D'Alternate sequence of o's & 1's starting 2 5 -> OIS 01 3 Do not contain 3 consecutive a over (a, 63 => S-> a x | b x | - 1 = E $x \rightarrow ay|bx|$ $y \rightarrow bs|e$ Ol= ant 60,13* n has equal number of 0's and 1's 3 RE= (01+10)* S-> 015 | 105 | E (4) Design a CFG over La, b 3 to accept set of all Palindromes. 5) (i) Even palindrome S-> a Sa / b S b / G (i) odd palindrome 5-) a Sa / b Sb / a / b 6) starting & ending with different letter over =) RE = a (a+b)*b + b (a+b)* a S-> axb/bxa X-> ax/bx/E

a+b) = = 2 ax /bx/e

(8)
$$(110 + 11)^* (10)^*$$

=) $S \rightarrow 110 S / 11S / A$

partinetrions