Shaji Uz Rahman Khan Ques) Jinen, Z= {a,b} fol": (a+ba)* (b+E) (a+ba)* (b+E) 21,5,19 CE Ques 2) Direct Method ?= 3 - 9 -> Augmentation of R.E. :5 (a+ba)* b (a+b)* b (a+ba)* b (a+ba)* | (a+ba)* b (a+ba)* | # -> Syntan True:-(on) frotterily for etals 2192,738,99,12,16,17,19,20,21,235 8=50 15,10,11,13,14,18,22,23} 2,4,5,1,8,9,11,12,13,14,16,17,

yourst page (no) = {1,2,7,8,9,12,16,17,19,20,21,23} > Follow yoop: 13-> {13,14,23} 1-> {1,2,73 14-> 8153 2-> \$33 15 -> 813,14,233 3-> {1,2,7} (3 16 -> (\$16,17,193+0) 4-> {4,5,113 17 -> \$183 5-> 863 19 -> & 233 healtely 6-> {4,5,113 20 -> {20,21,23} 7 -> { 4,5,113 8 -> {8,9,12} 21 -> \$223 22 -> {20, 21,23} 9-> 2103 10 -> {8,9,12} 11 -> \$23} (1) 12 -> \$13,14,23} be the starting state of yearspoor (no) Let A = 81,2,7,8,9,12,16,17,19,20,21,233 B= {3,4,5,10,11,13,14,18,22,23} C={ 1,2,4,5,7,8,9,11,12,13,14,16,17, 19,20,21,232 D= 8 6,15,23} E= {3,4,5,6,10,11,13,14,15,18, 22,233 F = & 4,5,11,13,14,23}

> Equivalent DFA :-Qa. (0 (dd) D)(d (6 (dQa) Ques3) Regular enpression with no consecutive b's.

(a+ba)* (b+E) Query) Regular grammar for the about RE will be --A -> aA | bB | E B -> aAle DFA you even # a's & odd # b's. (B) 2 a(bb)*a b/(a(bb)*ba)

-> The regular empression will be ? I trade of (aal (ab (bb)*ba))* ((ab (bb)*a) 1 b) (a(bb)*a)*. ((b)(a(bb)*ba))(aa/tab(bb)*ba))*((ab(bb)*a/b)(a(bb)*a)*) d, october - 30) Jup3) Regular empression with no consecutive by (3+d) *(pd+p) Guss) Regular grammar for the about RE will be -3/8d/AD < A Ques DEA for sum # a's & add # 6's