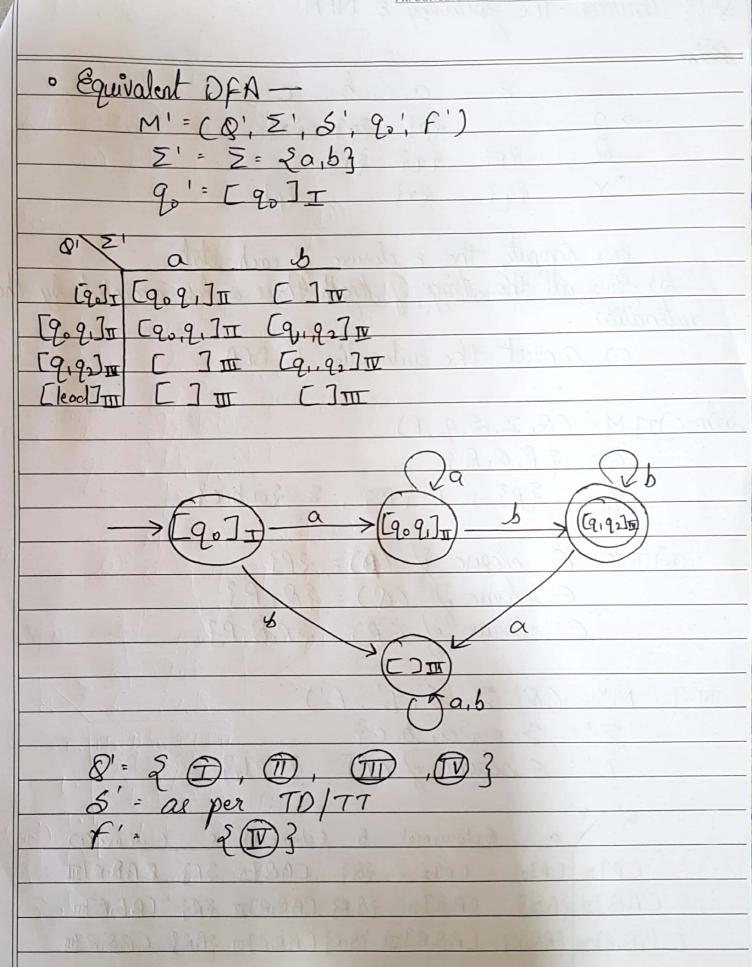


$$Q = 290.191.1923$$
  
 $Z = 20.16, c3$   
 $S = 20.27$   
 $Q = 29.3$   
 $F = 29.3$ 

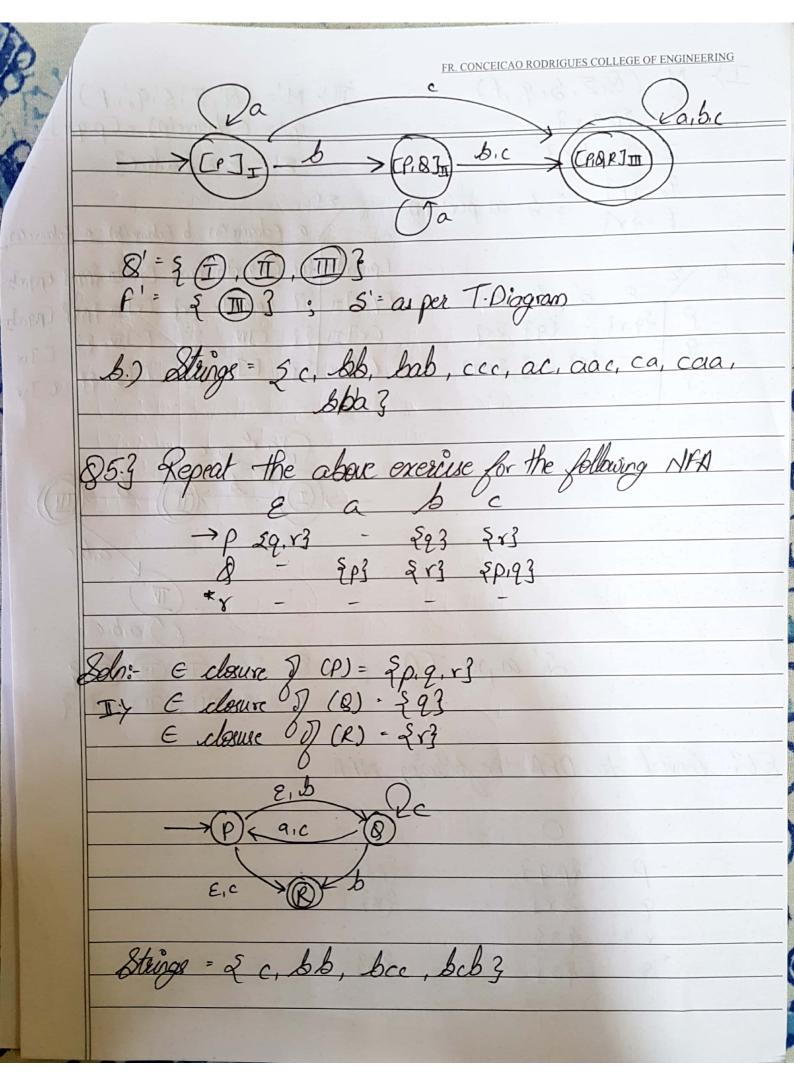
83.3 Find the equivalent DFA from given NFA whose transition function is as follows & a b

$$M = (0, \Xi, \delta, 9, F)$$
  
 $8 = 90, 91, 92, 93$   
 $6 = 923 : 90 = 903$   
 $6 = 903$ 

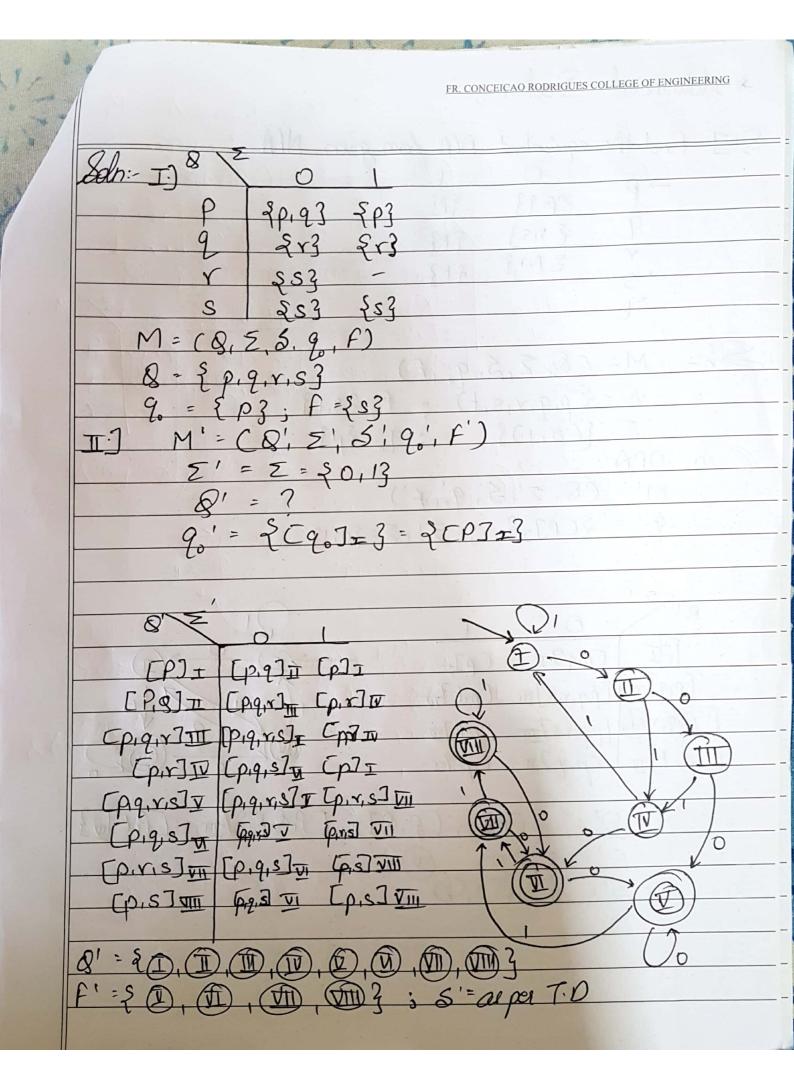


843 Consider the following E-NFA Loter a.) Compute the e-closure I each state b) give all the strings I length three or less accepted by the c) convert the automation to DFA. &dn:-c) I] M= (8, 2, 5, 9, F) 8 = 2P, Q, R3 90 = 2P3; F=2R3; E=2a,b, C3 a) II = Closure 7 (P) = 2P3 = closure 7 (Q) = 2Q, P3 e closure 7 (R) = 2R, Q, P3 III] M': (8', 2', 5', 9', F') Z'= Z= 20, b, c} 9. = E closure ) (P) = 2[P]] CPJ + CPJ = CPJ = 283 CP.8] II ZR3 CABIRJII CABJI SPIB3 CPIBJI FOIRS [PIBIR] I SRS CPIBIRJI

[PIBIR] I SPIBIR] [PIBIR] II YBIR] [PIBIR] II YPIR] [PIBIR]



I) M= (8, 5, 5, 6, f) III M'= (Q', E', 5', 90', F') 8= 5A9, r3 90'= Edosurelp) = [piqir] Z= {a, b, c} z'= = = {a,b,c} 2 = Sp3 6=3/p3 ; 5= as per T.D. a = [a Eclosure (a) b Eclosure (b) e Eclosure (c) [piqir] I SP] [piqir] I sqir] [qir] I Spqir] [qqir] S'= as per T.D: ; 8'= 21 (1), (1) 3 , E, = 3 (1) (1) 3 86.3 Convert to DAA the following NAA -P 3p.93
9 2 273
4 933



## \* Advanced Section

Sh:- 
$$M = (8, 2, 5, 9, F)$$
  
 $8 = \{p_1q_1, r_1s_1, t\}; f = \{s_1, t\}$   
 $z = \{(0, 1)\}; q_0 = \{p_1\}$   
in OFA

