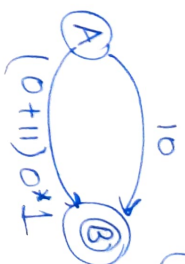


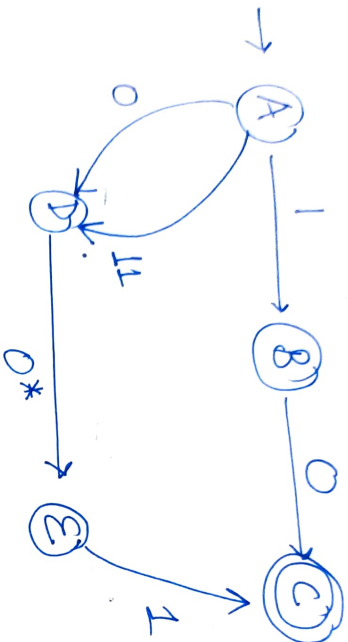
It denotes ...

L-A

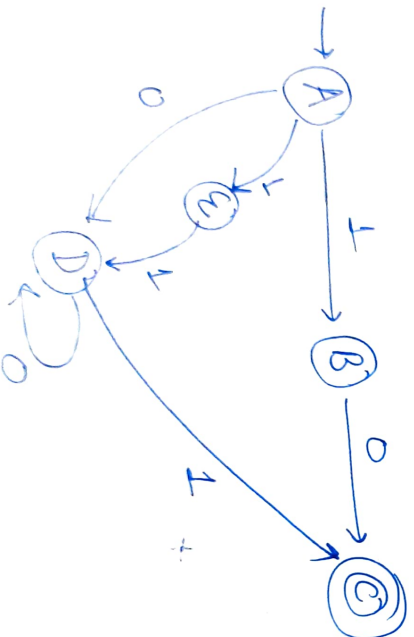
(99)
(4)



4) $10 + (0+11)0^*1 \Rightarrow$

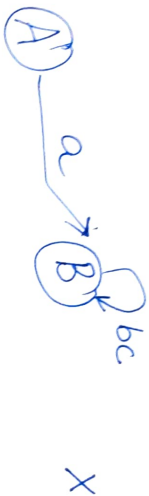


\Downarrow



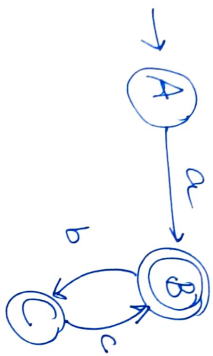
\Leftarrow NFA

Pr (3) $a.(bc)^*$

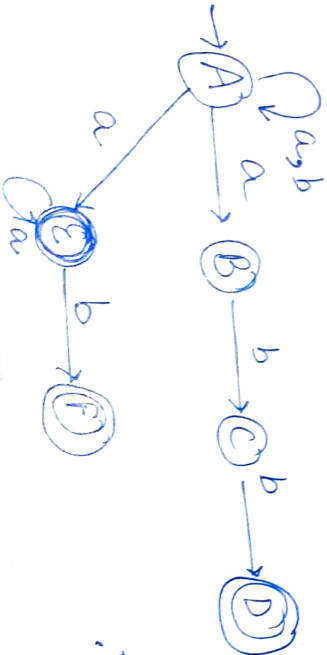


X

$\rightarrow a, abc, abcb, abcbcb, \dots$



4) $(a|b)^* (abb|a^*b)$
 $(a+b)^* (abb + a^*b) = abb + b$

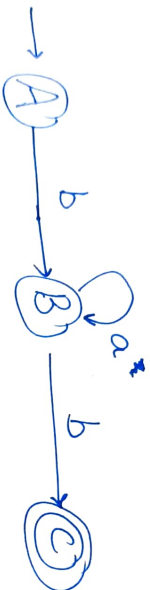


NFA
 \therefore Convert to DFA.

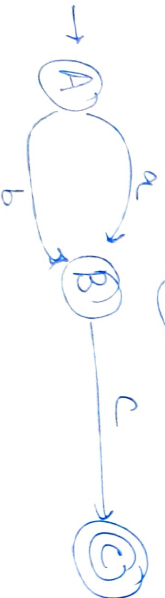
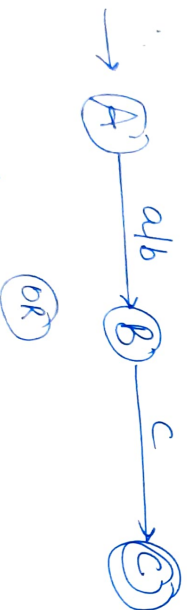
Ques: Convert the following RE to their equivalent FA:

Re 1) $b a^* b$ → closure (self loop)

Ans 1) $bb, bab, baab, baaab, ba \cdot b,$



2) $(a + b) \cdot c$

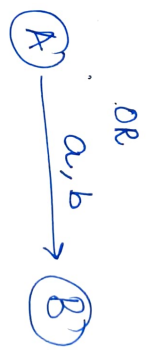
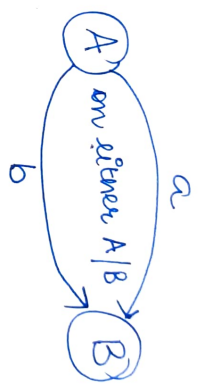


①

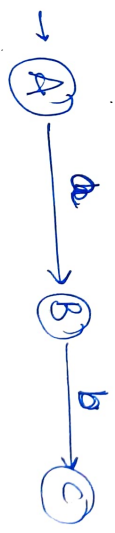
RE \implies DFA :-

Rules :

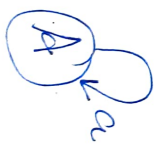
1) $a + b$
(2 states)



2) $a \cdot b$
(3 states)



3) a^*



TRP
(4 + RP) P
 $> Q + QP + QP^2 + \dots$