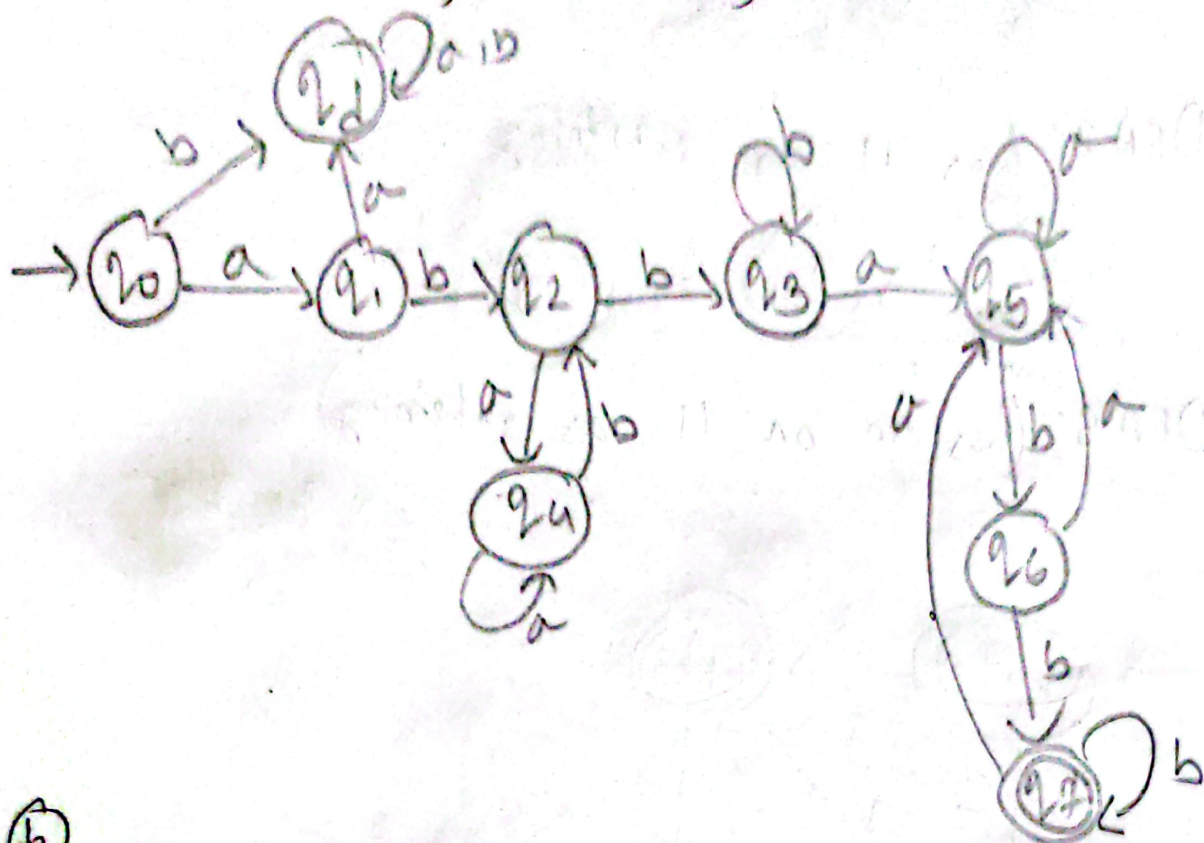
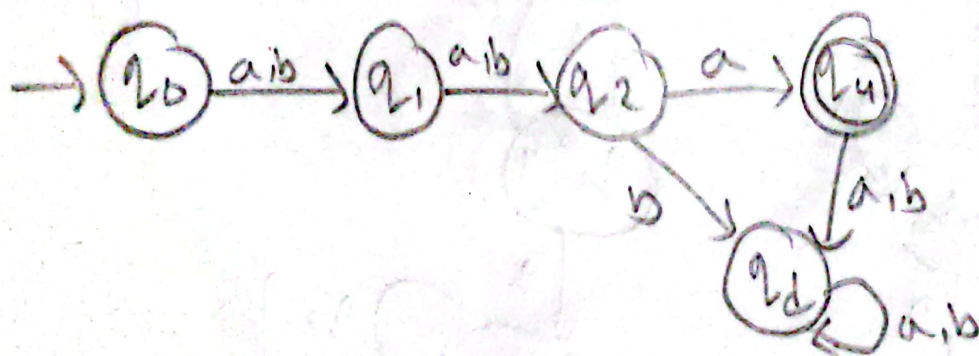


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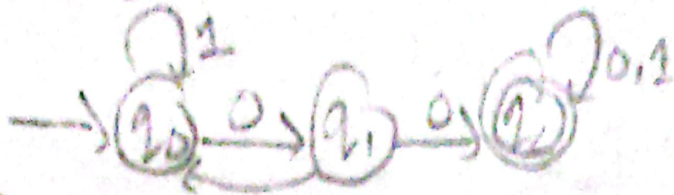
- ① (a)  $L = \{w \mid w \text{ starts with 'ab' and contains 'bb' and ends with 'bb'}\}$ ,  $\Sigma = \{a, b\}$



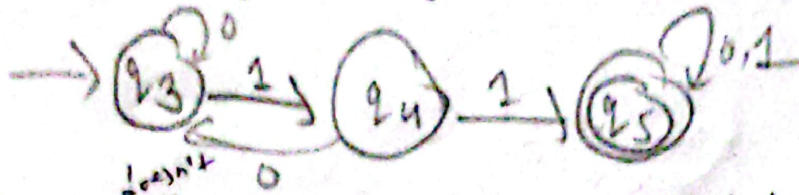
⑥



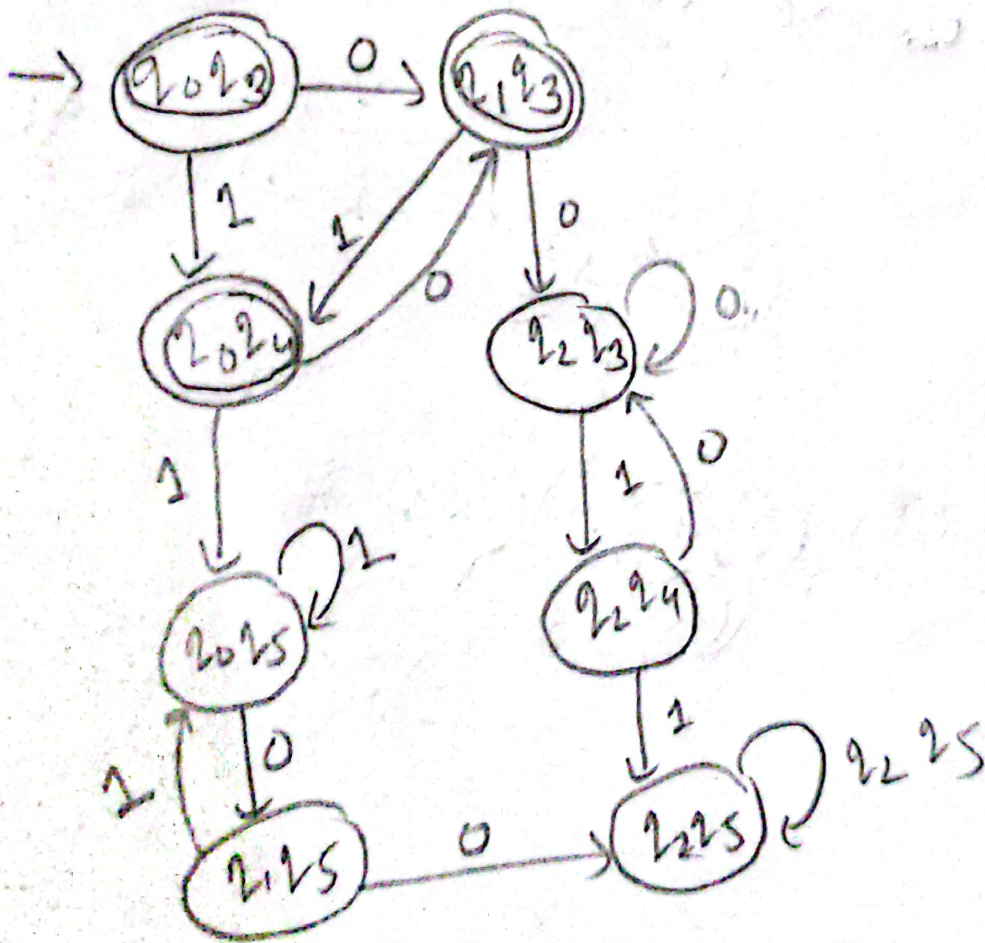
③ DFA1: has 00 as substring



DFA2: has 11 as substring

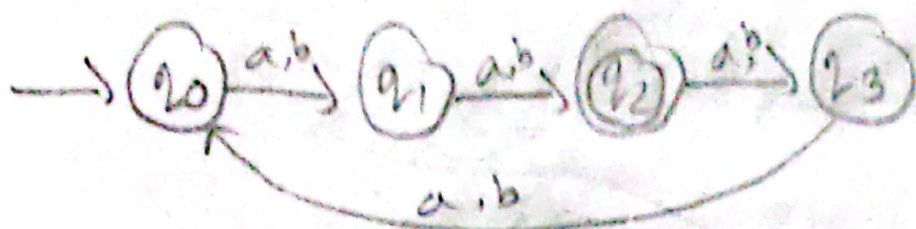


DFA3: (has 00 on 11 as substring)

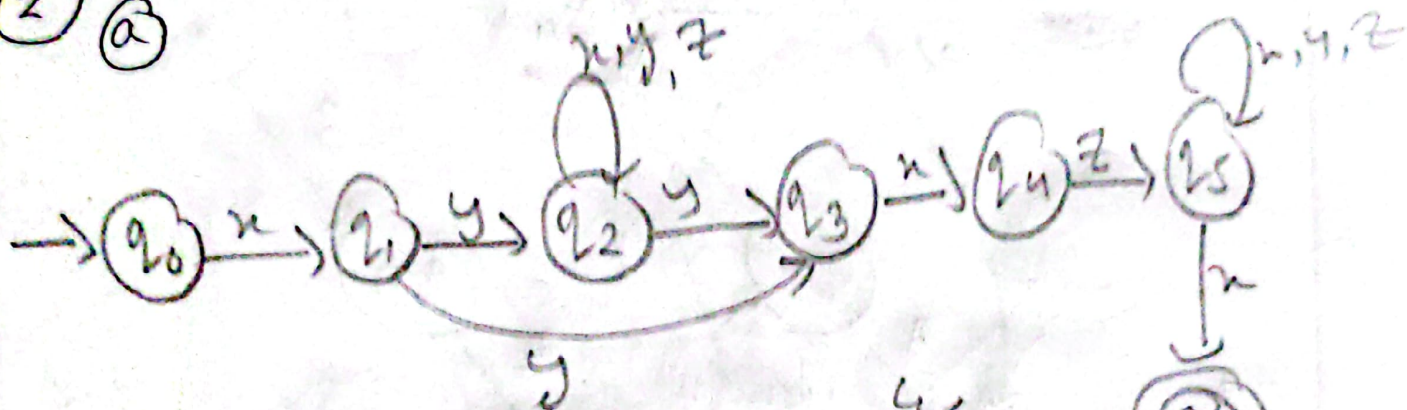




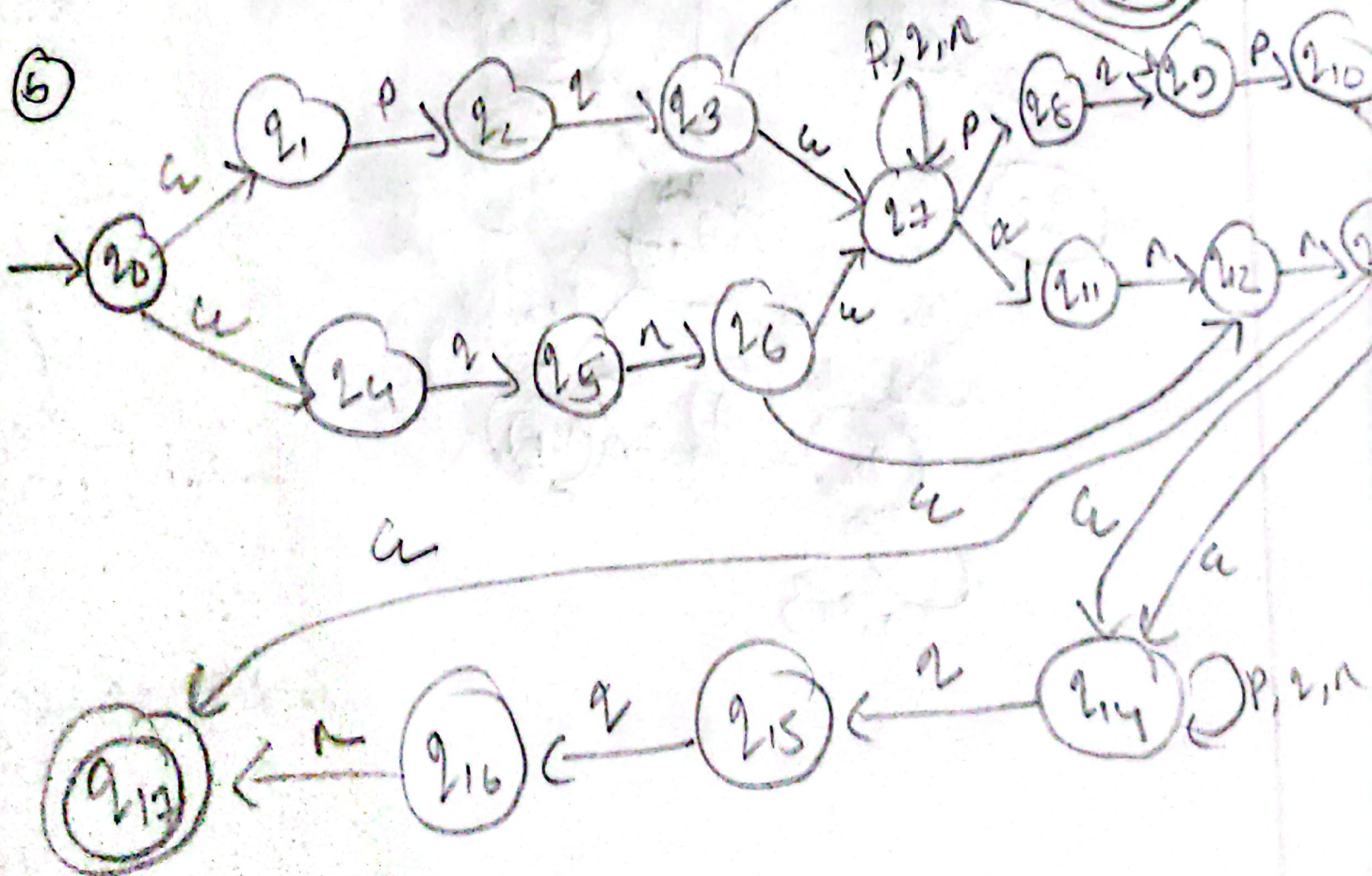
①



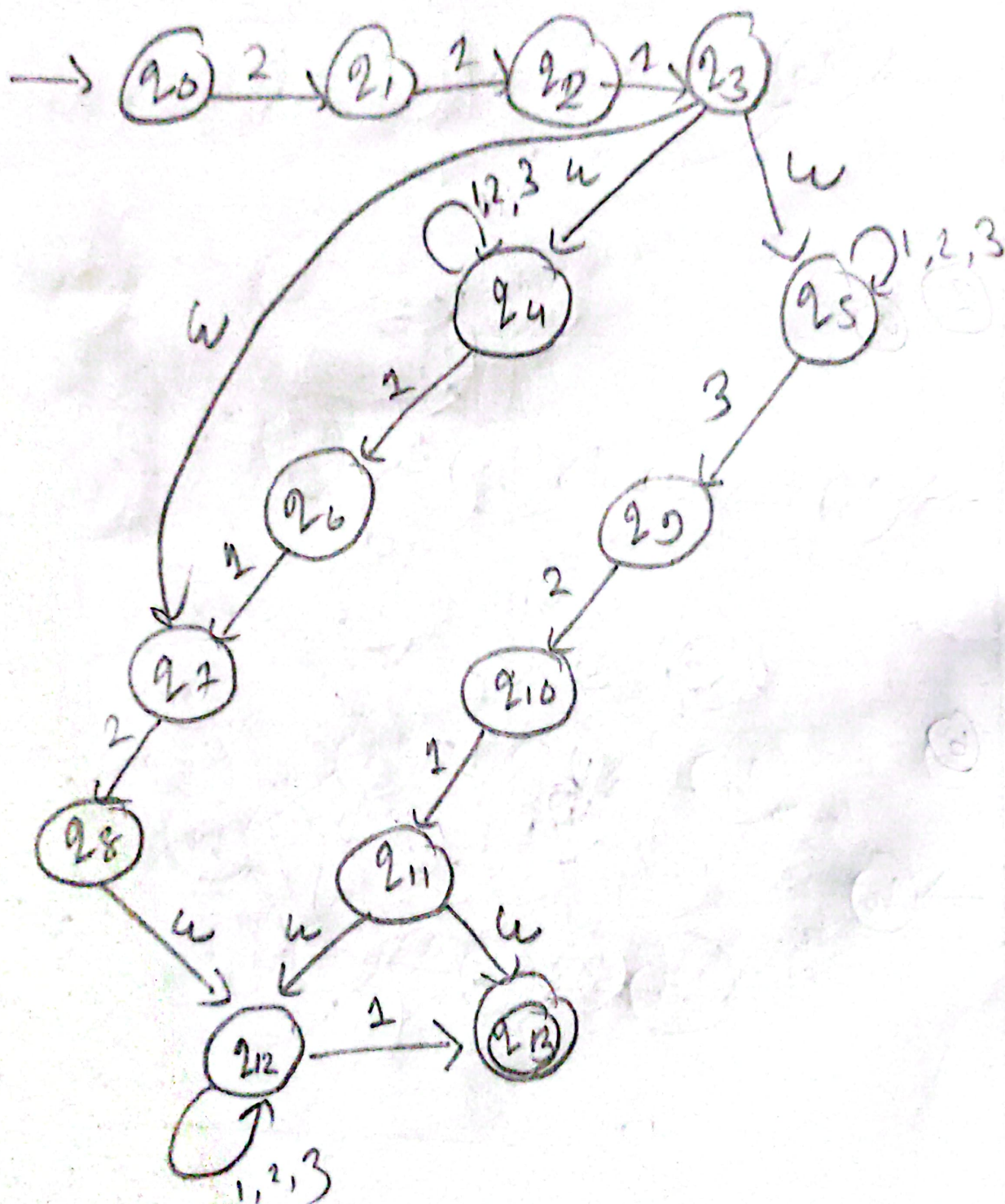
② a



⑤

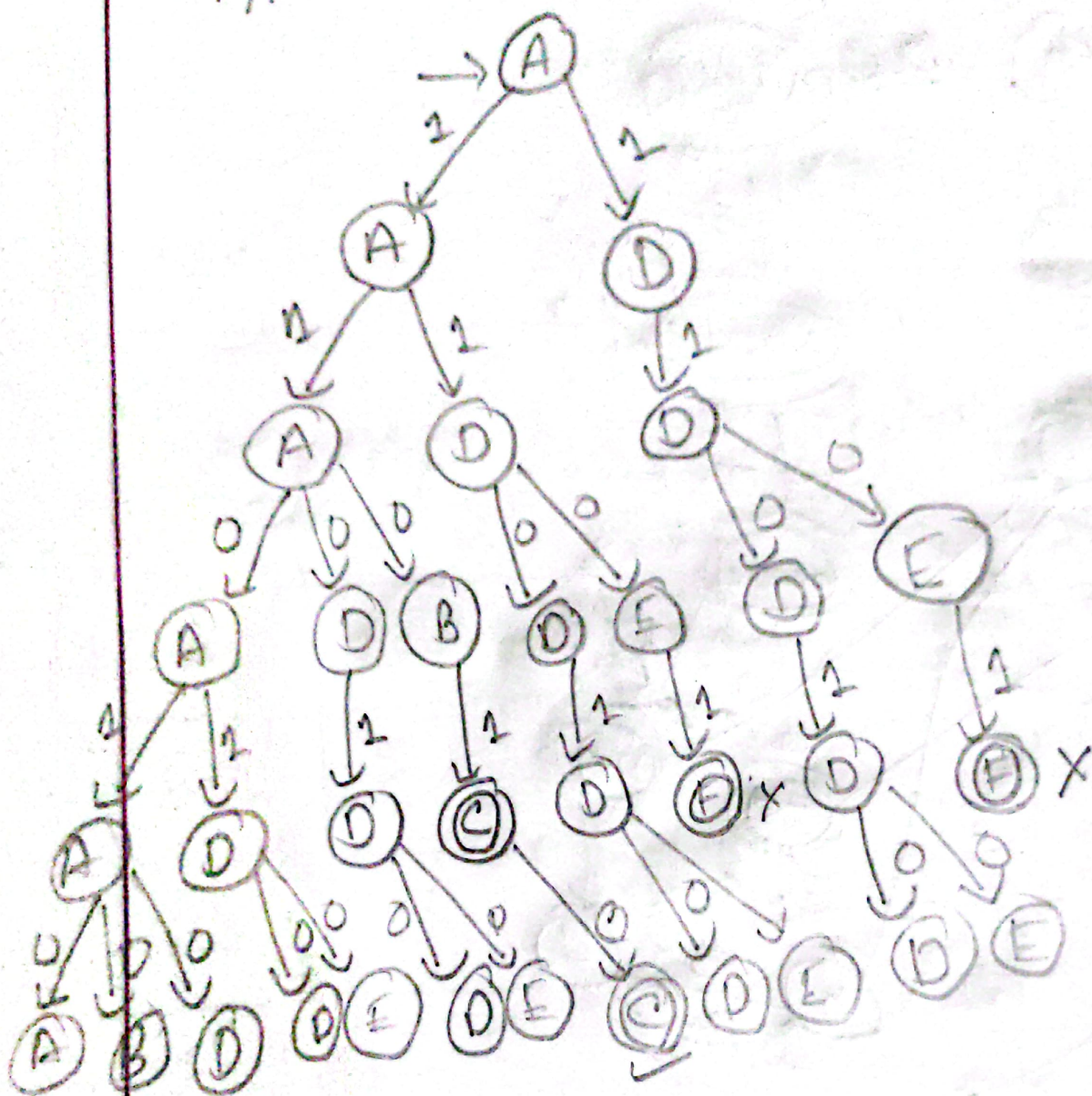


①





3.  $x \neq y$



Accepted

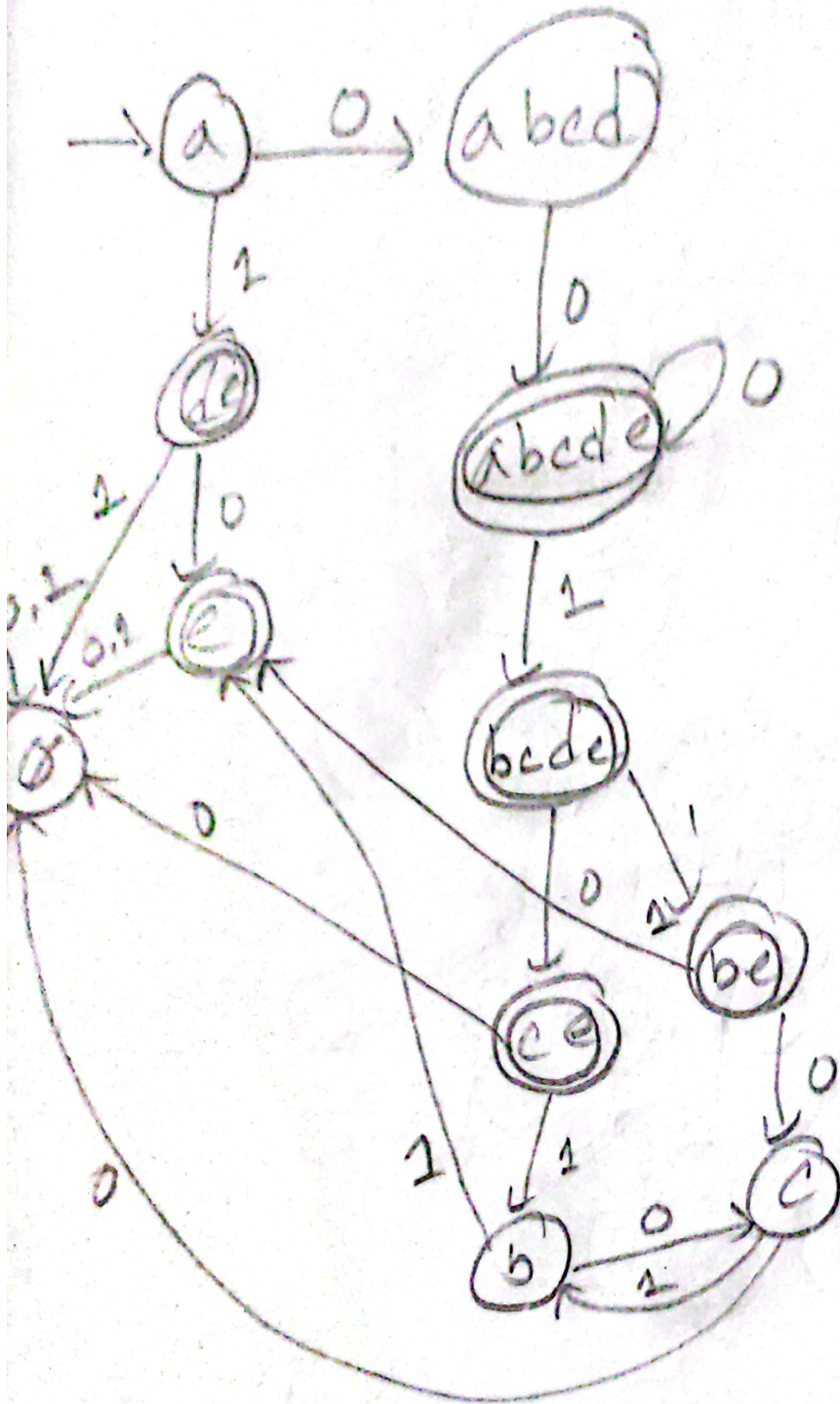
9

0 → a, b, c

1 → d, e, c, b

0 → c, e

1 → e, b



Accepted



5

$$eclose(a) = a$$

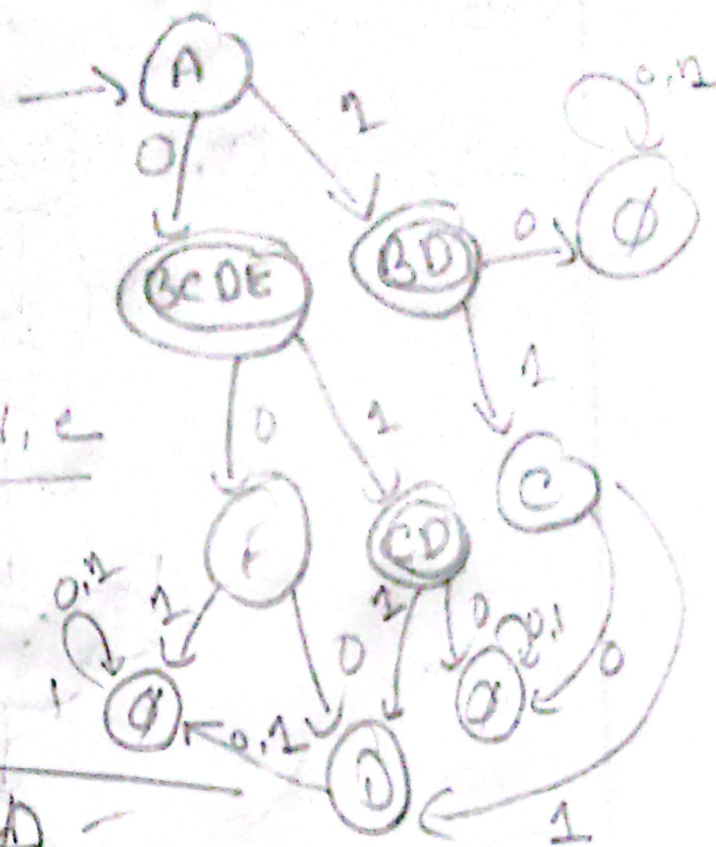
$$eclose(b) = b, d$$

$$eclose(c) = c$$

$$eclose(d) = d$$

$$eclose(e) = b, c, d, e$$

$$eclose(f) = f$$



	0	1
A	B, c, d, e	B, D
B, C, D, E	F	C, D
B, D	∅	C
F	D	∅
C, D	∅	D
C	∅	D
D	∅	∅