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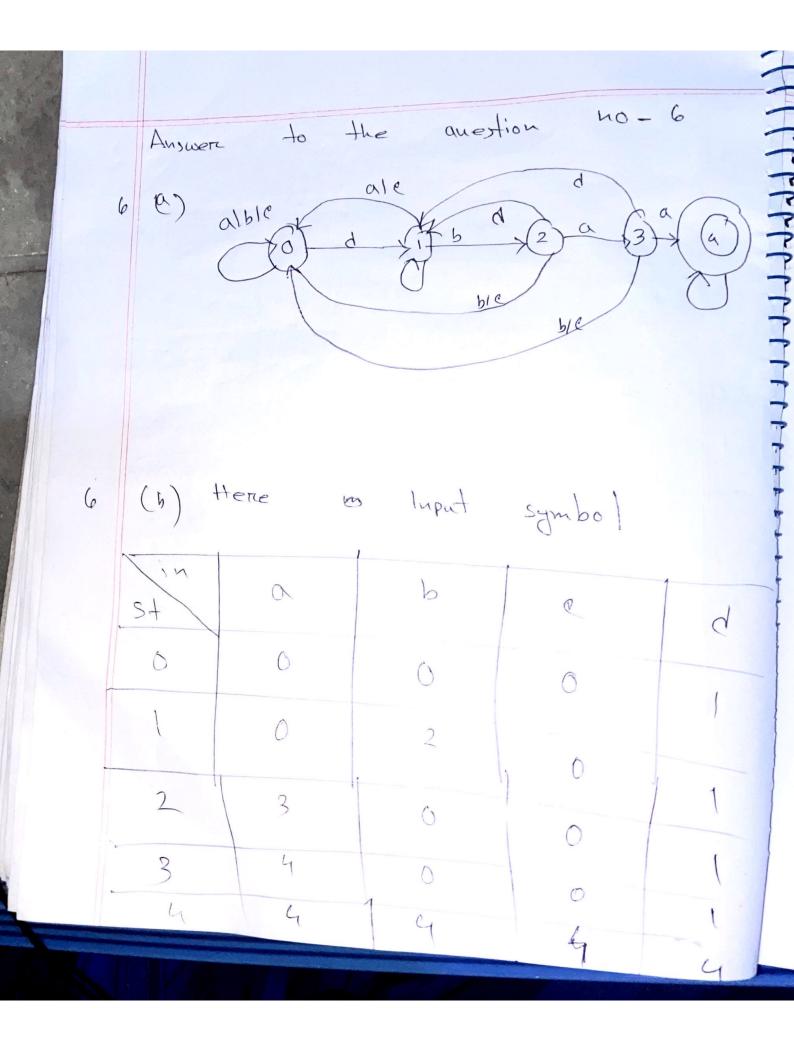
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5 (b) a Price -

5 (0)

 245700×31 $215600 \times 3 + 170600 \times 3 +$ $14700 \times 3 + 140600 \times 3 + 132200 \times 3 + 125700 \times 4$ $119300 \times 4 + 105400 \times 4 + 70600 \times 4$

- 4834900



6 (c) Herre,

T = {a,b,c,d) , N = {40, K, NZ, N3, K4}

1) no -> ano | buo | cho | dn,

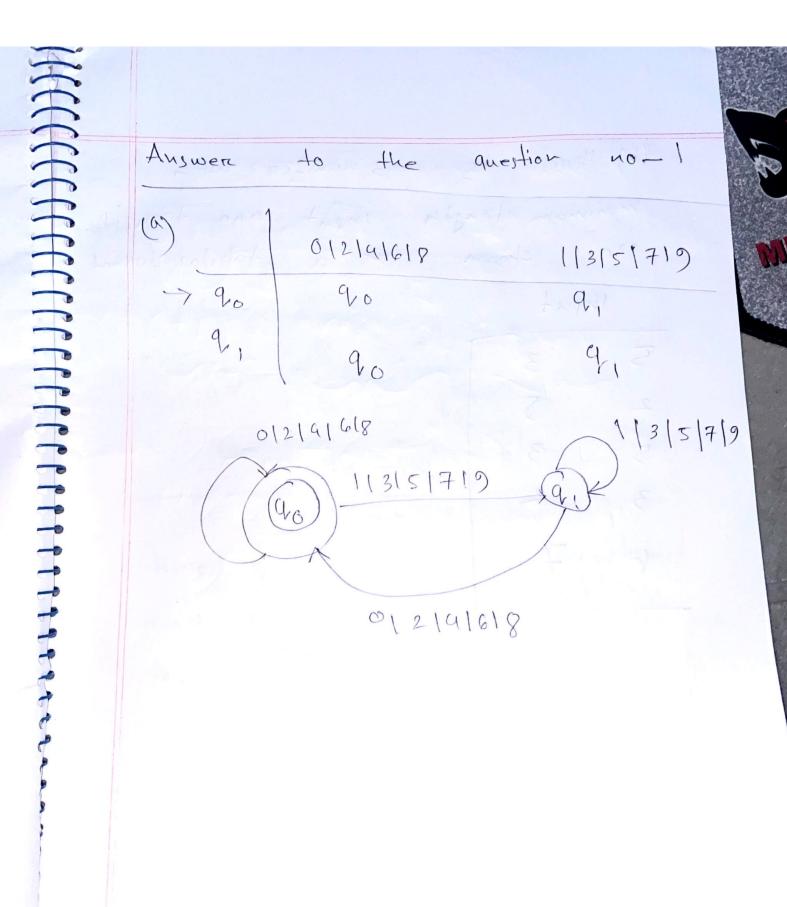
2) $u_1 \rightarrow au_0 \mid bu_2 \mid cu_0 \mid du_1$

3) n2 -> ang | brolonoldn,

4) u3 -> aual buo | cuo | du.

5) ky -> anal buy long ldny

6) 43 -> a



(b) Here is 3 number with

minimum length input and transition—

are shown in a tabular format

linput

5 3

2 5

6 J

Transition

$a_0 \rightarrow a_1$	$ a_0 \rightarrow a,$	
91 > 90	9, -> 2,	Vary
90 -79,	$2, \rightarrow 2,$	4,40)
$a_{i} \rightarrow a_{i}$	$q_{i} \rightarrow q_{o}$	
9, - 90	90-79,	

Herre 35327 is not acceptable and 52536 is acceptable as reach to state.

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ACCEPTETETETETET Answere to the auestion no-3 3. a) L(F) = { a, b, d} L(N)={1,2,33 L(F).L(N) = {a, b, d3. {1,2,3} - {a1, a2, a3, b1, b2, b3, d1, d2, d3, ap,d, 1, (b) L(F) U L(N) = & a,b,d3 U &1,2,33 - 20,6,d,1,2,33 L(F) U L(N). L(N) = $\{a, b, d, 1, 2, 3\}$ $\{1, 2, 3\}$

 $= \{a_{1}, a_{2}, a_{3}, b_{1}, b_{2}, b_{3}, d_{5}, d_{2}, d_{2}, d_{3}, 11, 12, 13, 21, 22, 23, 31, 32, 35, a, b, d, 1, 2, 33\}$

in length 24

(C) 1(M)16

we know $L(N)^h = \frac{p(p^h-1)}{p-1}$

Herre n=168

P = 3

 $2(N)^{16} = 3(3^{16} - 1)$

= 645070080

$$L(N)^{7} = 3(3^{7}-1)$$

$$\times \longrightarrow \alpha \gamma \alpha$$

ana y aaa > asaa yaaaa -7 aaaaa yaaaaa > aaaaaa Yaaaaaq y oaaaaabaaaaaa