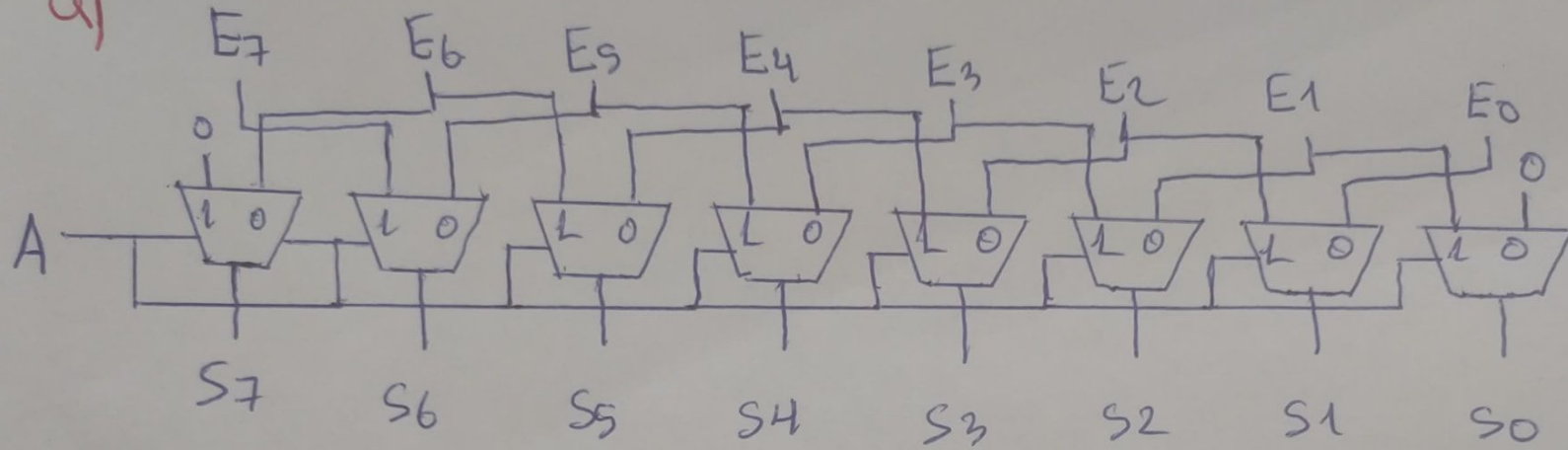


① a)



b) Se $A=0$, então desloca a entrada para a esquerda
 Se $A=1$, então desloca a entrada para a direita

c)

Entrada (E)		Saída (S)	
A	bin dec	bin dec	
0	01110010 114	11100100 228	$\leftarrow S = 2E$ $\leftarrow S = \frac{E}{2}$
1	01101101 109	00110110 54	

2

G2	G1	G0	a	b	c	d	e	f	g	Letra
0	0	0	0	1	1	1	1	1	0	U
0	0	1	1	0	0	0	1	1	1	F
0	1	1	1	0	0	0	1	1	1	F
0	1	0	1	0	1	1	0	1	1	S
1	1	0	1	1	0	1	1	0	1	2
1	1	1	1	1	1	1	1	1	0	0
1	0	1	1	1	0	1	1	0	1	2
1	0	0	1	1	1	1	1	1	0	0

$G1, G0$

		00	01	11	10
G2	0	0	1	1	1
	1	1	1	1	1

$$a = G2 + G1 + G0$$

$G1, G0$

		00	01	11	10
G2	0	1	0	0	0
	1	1	1	1	1

$$b = G2 + (\overline{G0} \cdot \overline{G1})$$

$G1, G0$

		00	01	11	10
G2	0	1	0	0	1
	1	1	0	1	0

$$c = (\overline{G1} \cdot \overline{G0}) + (\overline{G2} \cdot \overline{G0}) + G2 \cdot G1 \cdot G0$$

G_1, G_0

	00	01	11	10
0	1	0	0	1
1	1	1	1	1

$$d = G_2 + \overline{G_0}$$

G_2, G_0

	00	01	11	10
0	1	1	1	0
1	1	1	1	1

$$e = G_2 + \overline{G_2} + G_0$$

G_1, G_0

	00	01	11	10
0	0	1	1	1
1	0	1	0	1

$$g = G_1 \overline{G_0} + \overline{G_1} G_0 + \overline{G_2} G_0$$
$$(G_1 \oplus G_0) + \overline{G_2} G_0$$

G_1, G_0

	00	01	11	10
0	1	1	1	1
1	1	0	1	0

$$f = \overline{G_2} + \overline{G_1} \overline{G_0} + G_1 G_0$$

G2 G1 G0

