STANDARD

23

6)	shortest path : B	$\rightarrow C \rightarrow E \rightarrow F$	
	1 + 11 + 0	= 7 hours	grants.
	1+4+2	= 1 mours	

3-	a)	a,d,i,n,f	)

6

£B,C,D,E,F}

b)	k, e, l, b, a,	f, c, m, g, h,	d, p, n, i, o	, j	
-	, , , , , ,				



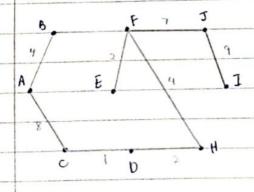
4 -	a)	<u>I</u> †	creates	a	circuit
-----	----	------------	---------	---	---------

ı			١
r	7	4	1

	6)				1
	edge	weight	circuit	select	
	co	1	no	yes	
	ЬН	2	no	yes	
	EF	2	ho	yes	
	Ae	4	no	yes	11
	FH	4	no	yes	
	Ep	G	yes	no	
(0	CE	7	yes	no	
	FJ	7	no	yes	
	BF	8	yes	no	
	AC	8	no	yes	
	JI	9	no	yes	
	HI	10	yes	no	
	BC	11	yes	no	
	JH	14	yes	no	
				-	

(0

minimum network =



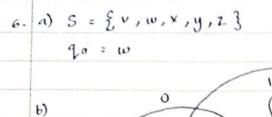
length = 4+8+1+2+4+2+7+9

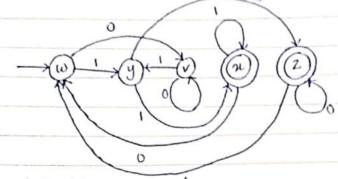
= 37 m

total cost = 37 × 100

= KM 3700

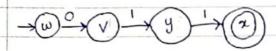
STANDARD





accepted string:

0111



7.  $q_0 = q_0$   $S = \{q_0, q_1, q_2\}$  $I = \{0, 1, 2\}$  qo = ground floor

q = first floor

22 = second floor

a = nothing happen

b = goes up

c = goes down

 State	Input, fs			Output, fo			
	0	1	2	0	1	2	
 90	90	2,	92	a	ь	ь	
9,	90	91	91	C	a	Ь	
92	20	٩,	92	C	C	a	

