1805006

CSE-206
Online-2
30.05.2021

$f = \Sigma (2, 3, 4, 9, 11, 13)$

A	B	C	D	F	
0	0	0	0	0	→ 0
0	0	0	1	0	
0	0	1	0	1	→ 1
0	0	1	1	1	
0	1	0	0	0	→ 0
0	1	0	1	0	→ $\bar{D}$
0	1	1	0	1	
0	1	1	1	0	→ D
1	0	0	0	0	→ D
1	0	0	1	1	
1	0	1	0	0	→ D
1	0	1	1	1	
1	1	0	0	0	→ D
1	1	0	1	1	
1	1	1	0	0	→ 0
1	1	1	1	0	

1st 4×1 MUX

2nd 4×1 MUX

Selector bits to

BC → input to 2 4×1 MUX.

A → selector to 2×1 MUX

f(D) → input to 4×1 MUXs

outputs of 4×1 MUX → input of 2×1 MUX