

PLATFORMIO

1. **Question(GATE-EC-2018-31):** A four-variable Boolean function is realized using 4×1 multiplexers as shown in the figure.

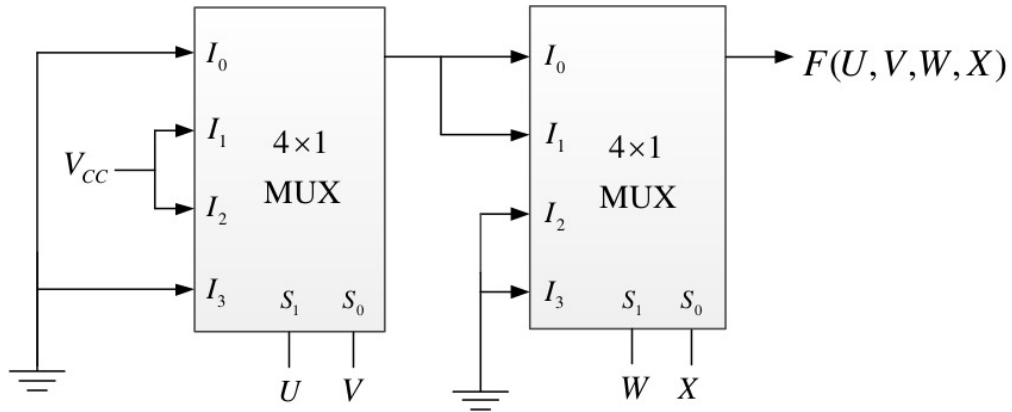


Figure 1

The minimized expression for

- (a) $(UV + \bar{U}\bar{V}) \bar{W}$
- (b) $(UV + \bar{U}\bar{V}) (\bar{W}\bar{X} + \bar{W}X)$
- (c) $(U\bar{V} + \bar{U}V) \bar{W}$
- (d) $(U\bar{V} + \bar{U}V) (\bar{W}\bar{X} + \bar{W}X)$