

GATE-EE 2011

Digital Logic Question

Q.52

The following Karnaugh map represents a function F :

		YZ				
		00	01	11	10	
X	0	1	1	1	0	F
	1	0	0	1	0	

A minimized form of the function F is:

(A) $\overline{X}Y + YZ$

(C) $\overline{X}\overline{Y} + \overline{Y}Z$

(B) $\overline{X}\overline{Y} + YZ$

(D) $\overline{X}\overline{Y} + \overline{Y}\overline{Z}$

Correct Answer

Option (B): $F = \overline{X}\overline{Y} + YZ$