

GATE:IN-40-2023

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I. QUESTION

The Simplified form of the boolean function $F(W, X, Y, Z) = \Sigma(4, 5, 10, 11, 12, 13, 14, 15)$ with the minimum number of terms and smallest number of literals in each term is

- 1) $WX + \overline{W}X\overline{Y} + W\overline{X}Y$
- 2) $WX + WY + X\overline{Y}$
- 3) $X\overline{Y} + WY$
- 4) $\overline{X}Y + \overline{W}.\overline{Y}$