

# GATE:IN-40-2023

Anantha Krishnan

## 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

- (A)  $WX + \overline{W}X\overline{Y} + W\overline{X}Y$
- (B)  $WX + WY + X\overline{Y}$
- (C)  $X\overline{Y} + WY$
- (D)  $\overline{X}Y + \overline{W}.\overline{Y}$