

# GATE ASSIGNMENT

November 18, 2023

## Questions

1. The simplified form of the Boolean function  $F(W, X, Y, Z) = \sum(4, 5, 10, 11, 12, 13, 14, 15)$  with the minimum number of terms and smallest number of literals in each terms is \_\_\_\_\_.
  - (a)  $WX + \bar{W}X\bar{Y} + W\bar{X}Y$
  - (b)  $WX + WY + X\bar{Y}$
  - (c)  $X\bar{Y} + WY$
  - (d)  $\bar{X}Y + \bar{W}\bar{Y}$