FPGA

1. **Question(GATE-IN-2018-43):**The product of sum expression of a Boolean function $F(A, B, C)$ of three variables is given by

   $F(A, B, C) = \left(A + B + \bar{C}\right) \cdot \left(A + \bar{B} + \bar{C}\right) \cdot \left(\bar{A} + B + C\right) \cdot \left(\bar{A} + \bar{B} + \bar{C}\right)$

   The canonical sum of product expression of $F(A, B, C)$is given by

   (a) $\bar{A}\bar{B}C + \bar{A}BC + A\bar{B}\bar{C} + ABC$

   (b) $\bar{A}\bar{B}\bar{C} + \bar{A}B\bar{C} + A\bar{B}C + AB\bar{C}$

   (c) $AB\bar{C} + A\bar{B}\bar{C} + \bar{A}BC + \bar{A}\bar{B}\bar{C}$

   (d) $\bar{A}\bar{B}\bar{C} + \bar{A}BC + AB\bar{C} + ABC$