1. The Product of sun expression of a Boolean function $F(A, B, C)$ three variables is given by

$$F(A, B, C) = (A + B + \overline{C}) \times (A + \overline{B} + \overline{C} \times (\overline{A} + B + C) \times (\overline{A} + \overline{B} + \overline{C}) \tag{1}$$

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

(a) $\overline{AB}C + \overline{A}BC + A\overline{BC} + ABC$

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

(c) $AB\overline{C} + A\overline{BC} + \overline{A}BC + \overline{ABC}$

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