

Minterms and Maxterms Expression

Part A

$$(A) \text{ SOP}(\text{minterms}) = A\bar{B}\bar{C} + \bar{A}B\bar{C} + A\bar{B}C + ABC$$

$$(B) \text{ POS}(\text{maxterms}) = (A + B + C)(\bar{A} + \bar{B} + C)(A + B + \bar{C})(A + \bar{B} + \bar{C})$$

Part B

$$(A) \text{ SOP}(\text{minterms}) = \bar{A}B\bar{C} + \bar{A}\bar{B}C + A\bar{B}C + ABC$$

$$(B) \text{ POS}(\text{maxterms}) = (A + B + C)(\bar{A} + B + C)(\bar{A} + \bar{B} + C)(A + \bar{B} + \bar{C})$$

Part C

$$(A) \text{ SOP}(\text{minterms}) = \bar{A}\bar{B}\bar{C} + A\bar{B}\bar{C} + AB\bar{C} + \bar{A}\bar{B}C$$

$$(B) \text{ POS}(\text{maxterms}) = (A + \bar{B} + C)(\bar{A} + B + \bar{C})(A + \bar{B} + \bar{C})(\bar{A} + \bar{B} + \bar{C})$$