as

Standard POS Expression = (A+B) (A+C) (B+D)

$$= (A+B+C.\overline{C})(\overline{A}+B.\overline{B}+C)(A.\overline{A}+B+D)$$

$$= (A+B+C)(A+B+C)(\overline{A}+B+C)(\overline{A}+\overline{B}+C)(A+B+D)$$

$$(\overline{A}+B+D)$$

$$\Rightarrow (A + B + C + D \cdot \overline{D})(A + B + \overline{C} + D \cdot \overline{D})(\overline{A} + B + C + D \cdot \overline{D})(\overline{A} + B + C + D \cdot \overline{D})(\overline{A} + B + C + D \cdot \overline{D})$$

$$(\overline{A} + \overline{B} + C + D \cdot \overline{D})(\overline{A} + B + C + D \cdot \overline{D})(\overline{A} + B + C + D \cdot \overline{D})$$

$$(\overline{A} + B + C + D \cdot \overline{D})(\overline{A} + B + C + D \cdot \overline{D})(\overline{A} + B + C + D \cdot \overline{D})$$

$$\Rightarrow (A+B+C+D)(A+B+C+D)(A+B+Z+D)$$

$$(A+B+Z+D)(A+B+C+D)(A+B+C+D)$$

$$(A+B+C+D)(A+B+C+D)(A+B+C+D)$$

$$(A+B+Z+BD)(A+B+C+D)(A+B+Z+D)$$

$$= (A+B+D)(A+B+D)$$

A minimum Sop:

