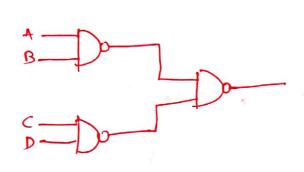


as



$$\frac{\overline{A \cdot B} \cdot \overline{C \cdot D}}{\overline{A \cdot B} + \overline{C \cdot D}}$$

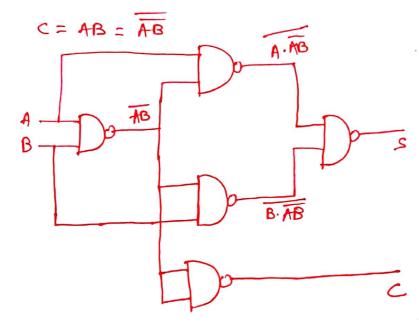
$$= A \cdot B + C \cdot D$$

96

$$\frac{(4567)_{8}}{(2\beta \cancel{5})_{8}} + \frac{(2\beta \cancel{5})_{8}}{(71\beta \cancel{5})_{8}}$$

$$\frac{(71\beta \cancel{5})_{8}}{7134}$$

$$S = \overline{AB} + \overline{AB} = \overline{AB} + \overline{AA} + \overline{AB} + \overline{BB}$$
  
 $= A(\overline{A} + \overline{B}) + B(\overline{A} + \overline{B})$   
 $= A.\overline{AB} + B.\overline{AB}$   
 $= \overline{A.\overline{AB}.\overline{B.\overline{AB}}}$ 



NOR Logic.

$$S = AB + \overline{A}B = AB + A\overline{A} + \overline{A}B + BB$$

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

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

$$= \overline{A+B} + \overline{A} + \overline{B}$$

$$C = AB = \overline{AB} = \overline{A+B}$$

