**Minimize the given Boolean Expression by using the four-variable K-Map.  
F (A, B, C) = Σ m (1, 3, 7) & Σ d (0,5). Express in both SOP and POS.**

**Minimize the given Boolean Expression in POS by using the four-variable K-Map.  
F (A, B, C, D) = Σ m (0,1,2,3,4,5) & Σ d (10,11,12,13,14,15).**

**Minimize the given Boolean Expression in SOP by using the four-variable K-Map.  
F (A, B, C, D) = Σ m (1,3,7,11,15) & Σ d (0,2,5).**

**Minimize the given Boolean Expression in SOP by using the four-variable K-Map.  
F (A, B, C, D) = Σ m (1,5,6,12,13,14) & Σ d (4).**

**Minimize the given Boolean Expression in SOP by using the four-variable K-Map.  
F (A, B, C, D) = Σ m (1, 5, 6, 12, 13, 14) & Σ d (2, 4).**

**Minimize the given Boolean Expression in SOP by using the four-variable K-Map.  
F (A, B, C, D) = Σ m (0,2,3,5,6,8,9) + d (10,11,12,13,14,15).**