

1. Simplify the following Boolean functions using K-map.

i.  $F(x,y) = \sum(0,1,2,3)$

ii.  $F(x,y) = \sum(0,1,2)$

iii.  $F(a,b) = \sum(0,1)$

iv.  $F(y_1,y_2) = \sum(0,3)$

v.  $F(x_1,y_1) = \sum(1)$

vi.  $F(a,b) = \sum(1,2)$

vii.