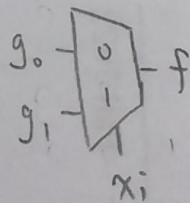1.

(g_0, g_1, x_i) $x =$ don't care

(a)

$g_0/_0 = (1, X, 0)$

$g_0/_1 = (0, X, 0)$

$g_1/_0 = (X, 1, 1)$

$g_1/_1 = (X, 0, 1)$

$x_i/_0 = (0, 1, 1), (1, 0, 1)$

$x_i/_1 = (0, 1, 0), (1, 0, 0)$

$f/_0 = (1, X, 0), (X, 1, 1)$

$f/_1 = (0, X, 0), (X, 0, 1)$

(b) $(x_i, x_j, h_0, h_1, h_2, h_3)$

$g_0/_0 = (0, 0, 1, X, X, X)$

$\qquad (0, 1, X, 1, X, X)$

$g_0/_1 = (0, 0, 0, X, X, X)$
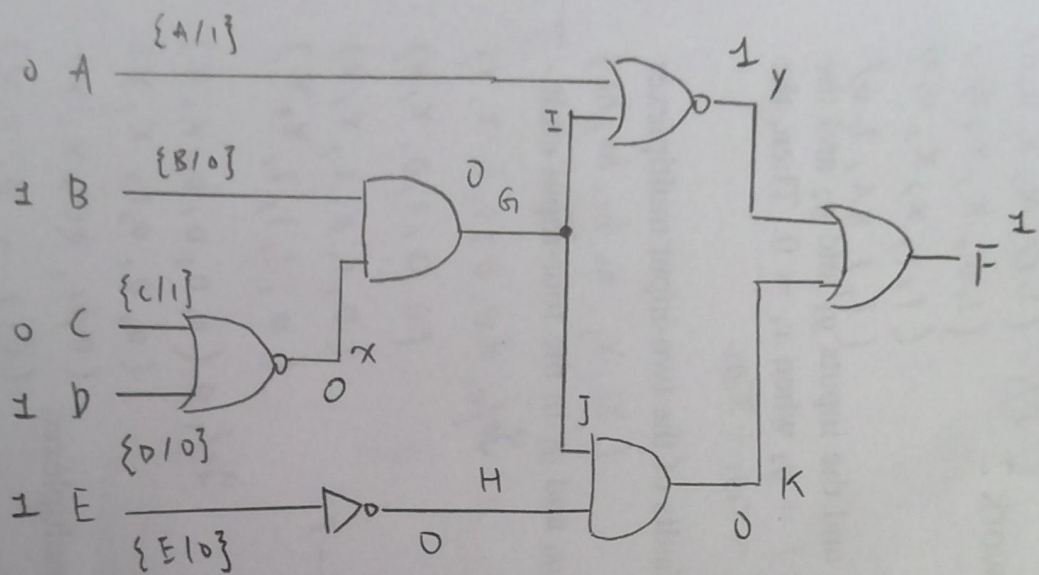
$\qquad = (0, 1, X, 0, X, X)$

$g_1/_0 = (1, 0, X, X, 1, X)$

$\qquad (1, 1, X, X, X, 1)$

$g_1/_1 = (1, 0, X, X, 0, X)$

$\qquad (1, 1, X, X, X, 0)$

2.

$X = \{ D/0, X/1 \}$

$G = \{ D/0, X/1, G/1 \}$

$I = \{ D/0, X/1, G/1, I/1 \}$

$Y = \{ A/1, D/0, X/1, G/1, I/1, Y/0 \}$

$H = \{ E/0, H/1 \}$

$J = \{ D/0, X/1, G/1, J/1 \}$

$K = \{ K/1 \}$

$F = \{ A/1, D/0, X/1, G/1, I/1, Y/0, F/0 \}$