Ch 7

1. a)

CLK
D   1 0 0 0 0
Q₀   0 1 0 0 0 0
Q₁   0 0 1 0 0 0
Q₂   0 0 0 1 0 0
Q₃   0 0 0 0 1 0

b)

CLK

D   0 1 1 0 0

LSB Q₀   0 1 1 0 0

Q₁   0 0 1 1 0

Q₂   0 0 0 1 1

MSB Q₃   0 0 0 0 1

$D = 1100$

Stored $= 1100$

2.

FF0   FF1   FF2   FF3

Input → D   D   D   D

CLK