Azmani Sultana

Id: 22201949

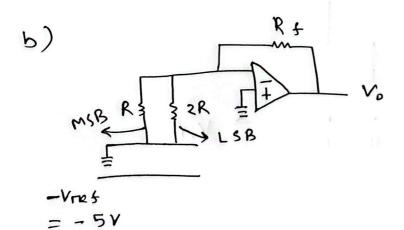
CSE350 Section: 13

Assignment 03

(1) a) This is a Digital to Analog conventer, which is taking 2 bits as input.

$$V_0 = \frac{R+}{R} V_{re} + \left(B_1 + \frac{B^2}{2} \right)$$

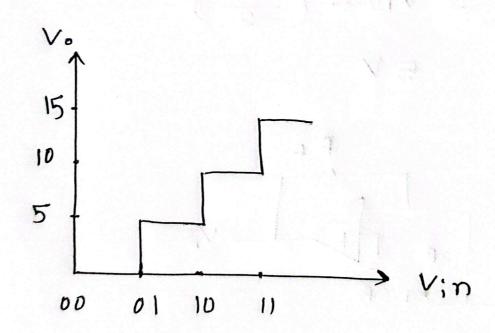
$$\Rightarrow 15 = \frac{2R}{R} \text{ Vres} \left(1 + \frac{1}{2}\right)$$



$$V_{01} = \frac{2R}{R} \cdot 5 \left(0 + \frac{b}{2}\right) = 0$$

$$V_{02} = \frac{2R}{R} \cdot 5 \left(0 + \frac{1}{2}\right) = 5$$

$$V_{03} = \frac{2R}{R} \cdot 5 \left(1 + \frac{6}{2}\right) = 10$$



and the state of t