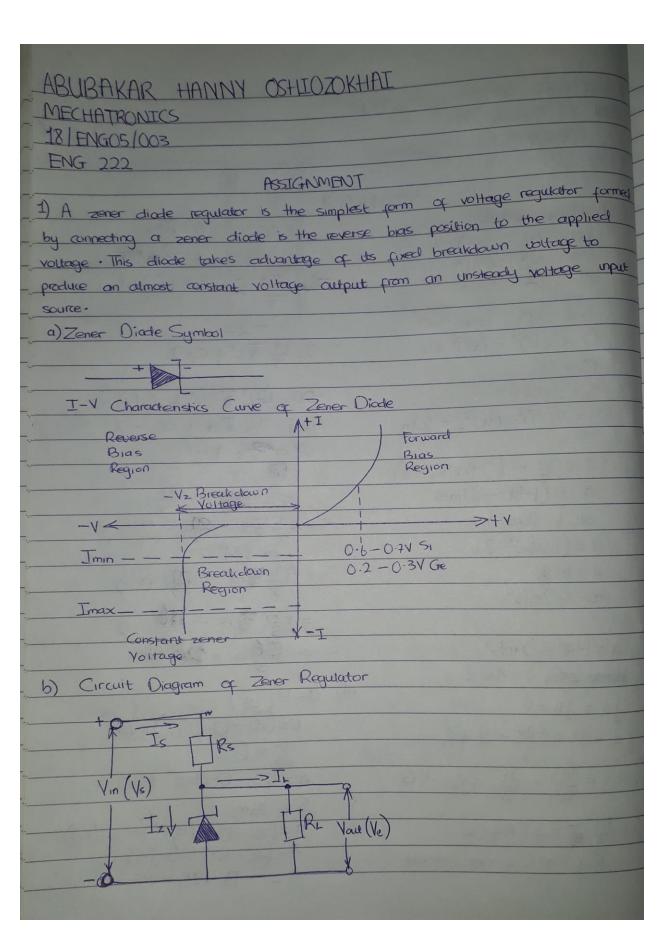
NAME: ABUBAKAR HANNY OSHIOZOKHAI

**MATRIC NO: 18/ENG05/003** 

**DEPARTMENT: MECHATRONICS** 

**COURSE CODE: ENG 222** 

## **ASSIGNMENT**



2) 
$$P_2 = 5IN$$
 $I_2 = 500 \text{ mA}$ 
 $V_5 = 20V \text{ max} = 2x20 = 12.78V$ 
 $T$ 

But  $V_2 = ?$ 
 $Recall$ ,  $P_2 = I_2V_2$ 
 $S = 500 \times 10^{-3} \times V_2$ 
 $V_2 = 10V$ 

Also,  $R_5 = V_5 - V_2$ 
 $I_2 = 12.73 - 10$ 
 $I_2 = 12.73 - 10$ 

But 
$$I_1 = \frac{V_2}{R_L} = \frac{10}{500}$$