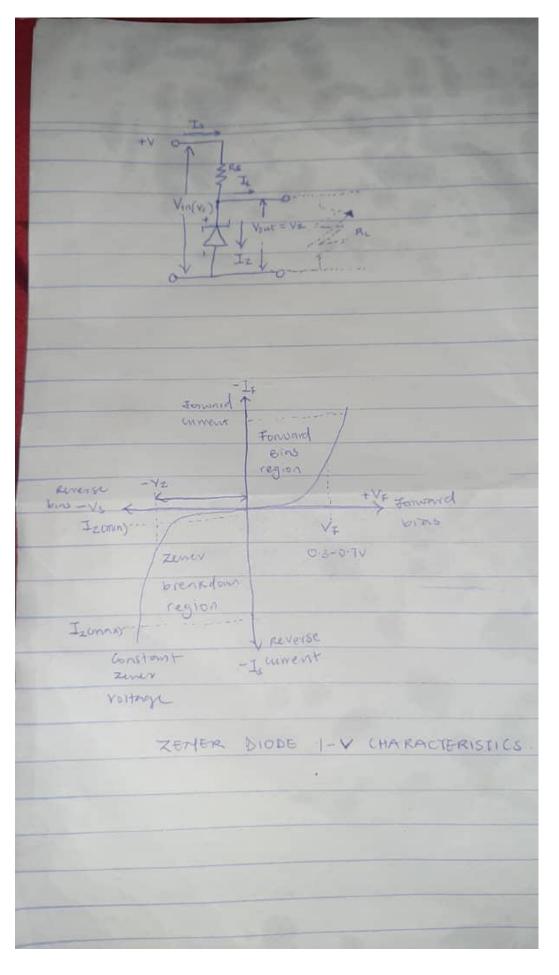
NAME: UZO-NWOSU ADAEZE MECHATRONICS ENGINEERING 18/ENG05/065



Power = 5W arment = 500mA 20Vmax To convert Vinna to Vde Vdc = 2vmns π V3 = 2×20 = 12.74 VDC 8 = IV $V_{z} = P_{z} = \frac{5}{1_{z}}$ $I_{z} = 500 \times 10^{-3}$ = 10V Recall that V2 + VE = Vs VIL = VS - VZ 12.74 -10 = 2.740 . VEIR $R = V = 2 \cdot 14 = 5 \cdot 48$ I 500×10-3 since its connection series and some current flow Is = Iz +IL $I_z = I_s - I_L = V_z = 90_V = 0.0$ F 5002 = 2 Iz = 500mA - 20 mA = 450mA NAME: UZO-NWOSU ADAEZE MECHATRONICS ENGINEERING

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VAME 25 that is the cathode diode consisting of a silicon pri unition and some brind 5 I EN EN SL PASSING in the forward direction, that is that Howaver Jow of Ime NOOS f's Zener diode Controde, it behaves just like direction the routed as tive Current いっていたく pos the 2 ever behave just like a invent 2 becomes throngh durde conventional diode reverse Notterton more loegins HSULF WIMEN monned 2 positive positive thing the Maily reverse reversion to conduct reacues a Sconner - burbose trunt block YENENSE WOWAN 1250 tox PIL detomme IN that binded Munder