

ECE 113: Basic Electronics Quiz-6

Duration: 25 Minutes

Date: X-May-2023

Total Points: 15

Q1: In Fig.-1, the cut-in voltage for each diode is 0.6 V & each diode current is 0.5 mA. Find out the value of R_1 , R_2 & R_3 . **[7.5 Points]**

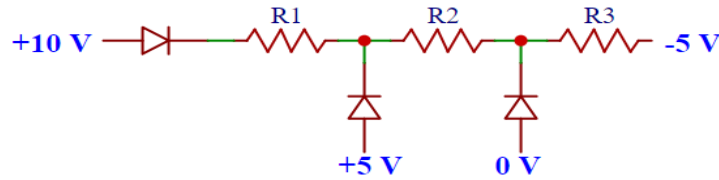


Figure 1

Q2: In Fig.-2, $V_Z=18\text{ V}$, $R_L=18\ \Omega$ & $I_Z=200\text{mA}-2\text{A}$, where symbol have their usual meaning. Find the value of R . **[7.5 Points]**

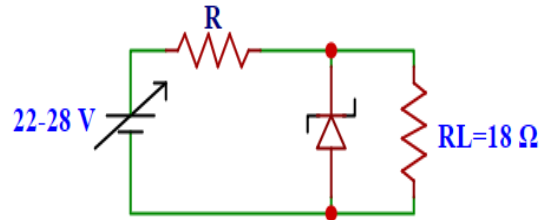


Figure 2