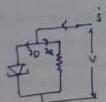
## Electromicslab

## Solution Lab Test 1

has

Find the value of R. Lo that the combination does not exhibit negative presistance pregion in Voltampere characteristics

were to exhibit no megasive resistance region, the slope of the curve



But it is given that die mai

Therefore & should be at least loss, so that there is no negative resistance region in characteristics

Suppress:- The zener diede can be used to brevent overloading of
sensitive meter movement without affecting meter linewity
The circuit known represents a DC voitmeter which read
20 y fau scale

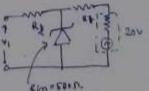
The meter medicance is 500 R and Ri+Ri=385 K.R.

If the diade is it is remen, find Ri and Ri so that when Uir Rov,
the remen diage conduct and the overload current is shunted
away from the meter.

## Solubion:

compact

ac = (2.442+9m) x = (38 stose) x of c 1



when Verzer, the extense ocross & and &m much be equal to Zemen

446

BOY across 2 km statister, assuming Bs=200km and maximum zenes.

Sol. IL = Boy = 15 mA

Max Zenescovient = 25 ms That covernt = 25+15 = 40 ms Vimas = 30v+Rsx3 = 30v+2co(15+25) Vimas = 768v

uestionti- Differentiate between

tomerenery

THE SEL

- & Avanche breakdown due to high KE of election at high Voltage
- 2. Zenen breakdown due to not Es at low wronge in righ dope
- 3. Thermal breakdown due so men med grante election of highe

Questions: a Turnner diade exhibit negative agista Chanacteristics.

- b) variation diede and operate in revole and their Transform depetron depetron depetron depetron depetron depetron depetron depetron depetron
- c) zemen divide openance investe bras for volace.