LAB-2

Verification of Kirchoff's laws

Aim: To verify kirchoff's voltage law for the electric circuit.

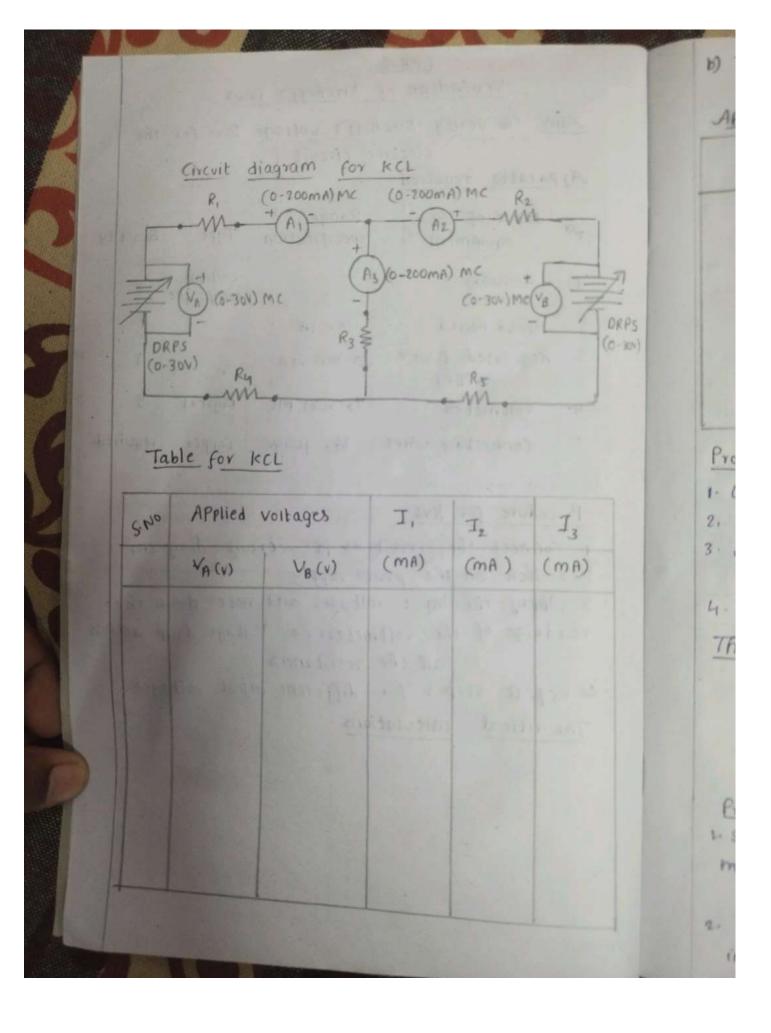
Apparatus required:

5.40	Name of the equipment	Range/ specification	Туре	Quantity
1.	Resistors	-	composite	5
2.	Bread board	30V.1A	- 10	1
3.	Regulated Power supply	(0-30V), ZA		1
4-	voltmeter	(0-30V), MC	Orgital	5
5.	Connecting wires	V22 guage	Copper	required.

Procedure for KULT MARIEN LANGE

- 1. Connect the circuit as per cercuit diagram
- 2. switch on the power supply
- 3. Apply the input voltages and note down the readings of the voltmeters i.e., Voltage Svop accross all the resistances.
- 4- Repeat step-3 for different input vostages.

Theoritical calculations



b) To venify kirchoff's current law for electric circuit.

Apparatus required

Such a			

Procedure for KCL

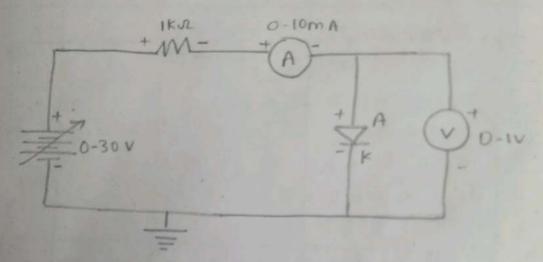
- 1. Connect the circuit as per circuit diagram
- 2. Switch on the power supply.
- 3. Apply the input voltages and note down the readings of the ammeters
- 4. Repeat step-3 for different input voltages.

Theoritical calculations

Precautions

- In Set the current adjustment knob of the RPS in maximum position and voltage coarse and voltage fine adjustment knobs in minimum position.
- 2. While using multimeter as voltmeter or ammeter insent connecting probes in proper socket.

DRPS (0-301) Circuit diagram
Forward Bias



Revense Bias

