

LAB-1

Verification of Ohm's law

Aim: To conduct a svitable experiment for verifying the ohms law.

Apparatus required:

10/3	Name of equipment	Range	Туре	Quantity	
1.	Ammeter	(0-200mA)	-	3	
2.	Voltmeter	(0-30V)		3	
3-	RPS	(0-30V), &A	- 1111	1	
4,	Bread board	10	-	1	
5	Resistors		Carbon composed	2	
6.	Connecting	1/22 single			
	301103	stranded conductor	Copper	required.	

Procedure: (from the street in the street of

- 1. Connections are made as per circuit diagram
- 2. Switch on the power supply.
- 3. For various values of cu' note values of current.
- 4. Praw a graph of voltage and current.
- 5. The slope of the graph gives resistance value.
- 6 Verify ohms law by measuring the value of 'R'
 Using multimeter and comparing it with the
 practical value.

For senies

5.NO	Applied voltage	Current (A)	Voitage (V	(V)
3			E STATE	and addressed .
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			Children (C)	1 Saintees
			1405-873	volumed of
-			Provinces S	290
			The same	benedler in of
	A Day			
200			sign act	printer.

For panallel

	Applied	Corrent (I)	current (mA)	
600				
	- Survey			
				1017 37 3
		Children in		
				on to .

Precautions

- 1. Connections should be right.
- 2. Check the connection before switching on the supply.
- 3. Readings should be taken without panallex error.

Result

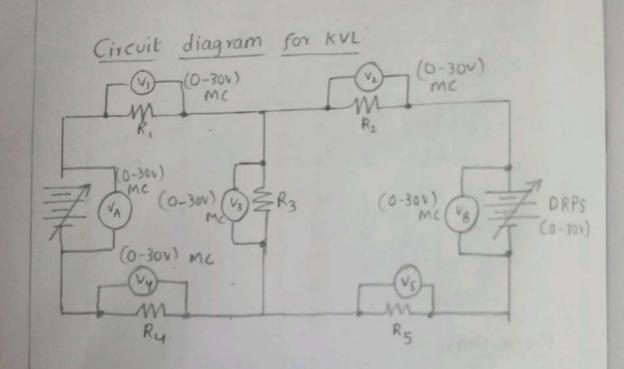


Table for KVL

Albhuca	Voltages VB (V)	Mesh-1			Mesh-2		
VA (V)		V, (V)	V3 (v)	·Vy(V)	V2 (U)	V3(V)	V5(v)
	66.						
	100						
	B. C.						
				100			
	500			100			
		19993		100			
	V _A (V)	VA (V) VB (V)	VA (U) VB (V) V, (U)	VA (U) VB (V) V, (U) V3 (V)	VA (V) VB (V) V, (V) V3 (V) V4 (V)	V _A (V) V _B (V) V ₁ (V) V ₃ (V) V ₄ (V) V ₂ (V)	Applied Voltages Mesh-1 Mesh-2 Vh (V) Vg (V) Vi (V) Vg (V) Vg (V) Vg (V)