<u>Ohm's law</u>

Purpose:

To verify ohm's law (the relation between I and V)

Theory:

Ohm's law :the ratio of the potential (between the points in a conductor to a current at a given temp. Known as Resistance "R".

Apparatuses used :

Power supply, Ammeter , constant resistance "R" voltmeter.

Procedure:

 Connect the power supply "E", the ammeter A the rheostat and the constant resistance "R" in series. then connect the voltmeter "V" in parallel with (R) as shown in fig :



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- Adjust the rheostat so that the ammeter and voltmeter are registers a convenient reading on the scale.
- Record both the reading of I of the ammeter and voltmeter (V)
- Tabulate the results.

V (volt)	l (amp)	R (_Ω)

 $R(_{\Omega})$ = Slope



Ohm's law units are_{:(Ω)}

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3- The slope in Ohm's law is:

A. V/ R

- B. R/V
- C. V/I
- D. I/ V

4- the ratio of the potential (between the points in a conductor to a current at a given temp. Known as Resistance "R".

- a. Ohm's law :
- b. power law
- c. power momentum law
- d. D- charge law

5- Ohm's law units are:

- Α. Ω
- **B.** V
- C. Ampere
- D. Watt

current	التيار		المناقشة	Discussion
voltage	فولطية		ارسم	draw
Resistance	المقاومة		وضح	Explain
Ω	اوم		الجهد	potential

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