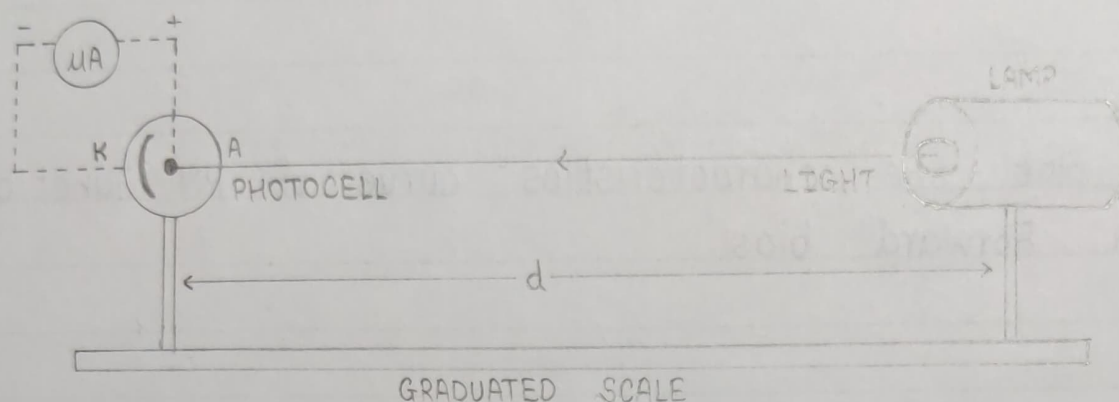


DIAGRAM \Rightarrow



OBSERVATION \Rightarrow

TABLE 1: Illumination Characteristics.

Intensity	Voltage
(distance in cm)	(V)
11	0.26 V
20	0.16 V
29	0.11 V
38	0.08 V
42	0.08 V

TABLE 2: I-V Characteristics.

R_L	Intensity I_1 (distance of 15 cm)	Intensity I_2 (distance of 20 cm)	Intensity I_3 (distance of 25 cm)
(-2)	Voltage (v) Current (μA)	Voltage (v) Current (μA)	Voltage (v) Current (μA)

TO STUDY THE I - V CHARACTERISTICS OF PHOTO - CELL.

AIM \implies

To study the I - V characteristics of Photo - electric cell.

APPARATUS - REQUIRED \implies

Photo - cell apparatus and connecting wires, lamp holder with 60W bulb, two moving - coil analog meters ($1000\mu\text{A}$ and 500mV) mounted on the front panel and connections brought out at terminals, two single point and two multi-point patch records.

100	0.12	0.35	0.10	0.25	0.08	0.15
220	0.14	0.30	0.11	0.20	0.09	0.13
330	0.16	0.25	0.12	0.17	0.10	0.11
470	0.18	0.22	0.13	0.15	0.11	0.10
1000	0.20	0.18	0.14	0.13	0.12	0.08
2000	0.22	0.10	0.15	0.10	0.13	0.05

RESULT \Rightarrow

The I-V characteristics of photo-cell was studied.

Scale.

On x-axis \Rightarrow

1cm = 0.02 V

On y-axis \Rightarrow

1cm = 0.02 μ A

