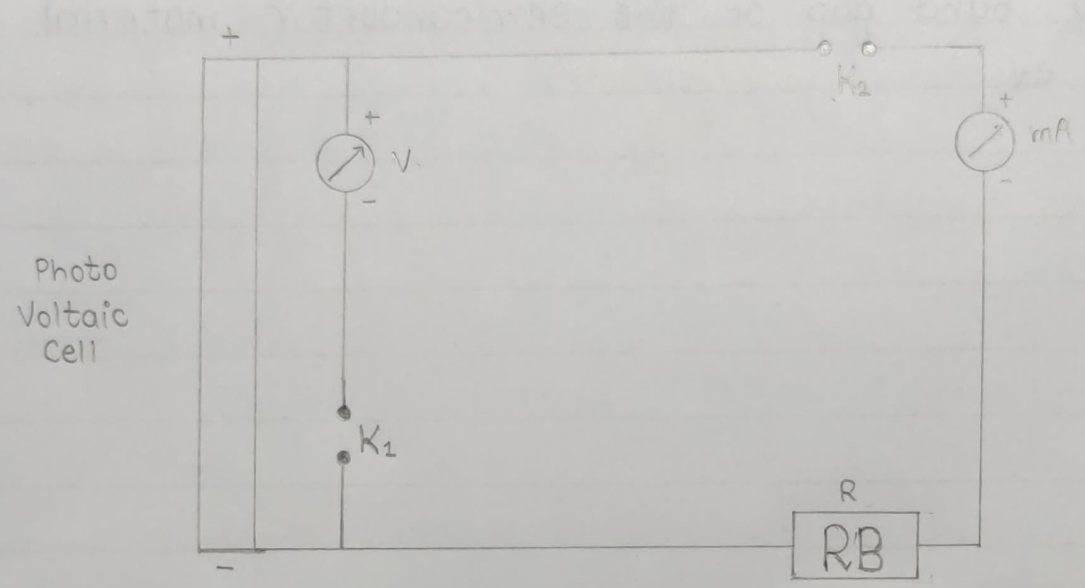
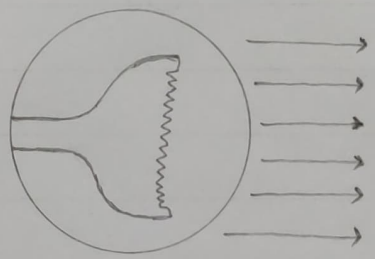
DIAGRAM ⟹





ⓘ V-I AND V-R CHARACTERISTICS.

Intensity	Resistance	Voltmeter Reading	Ammeter Reading
	Ω	V	mA
	10	1·57	122·6
	22	2·83	122·1
	47	3·62	74·1
	56	3·63	63·3
Maximum	68	3·84	55·2

Date 11/11/2020

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STUDY OF V-I AND V-R CHARACTERISTICS OF A SOLAR CELL.

AIM ⟹

To study the V-I and V-R characteristics of a solar cell.

APPARATUS REQUIRED ⟹

Solar cell, voltmeter, milliammeter, a dial-type resistance boxe, keys, illuminating lamps, connecting wires, etc.

Teacher's Signature

	82	3·90	45·5
	100	3·93	36·2
	160	3·94	26·2
	180	3·96	21·6

(ii) V-I AND V-R CHARACTERISTICS.

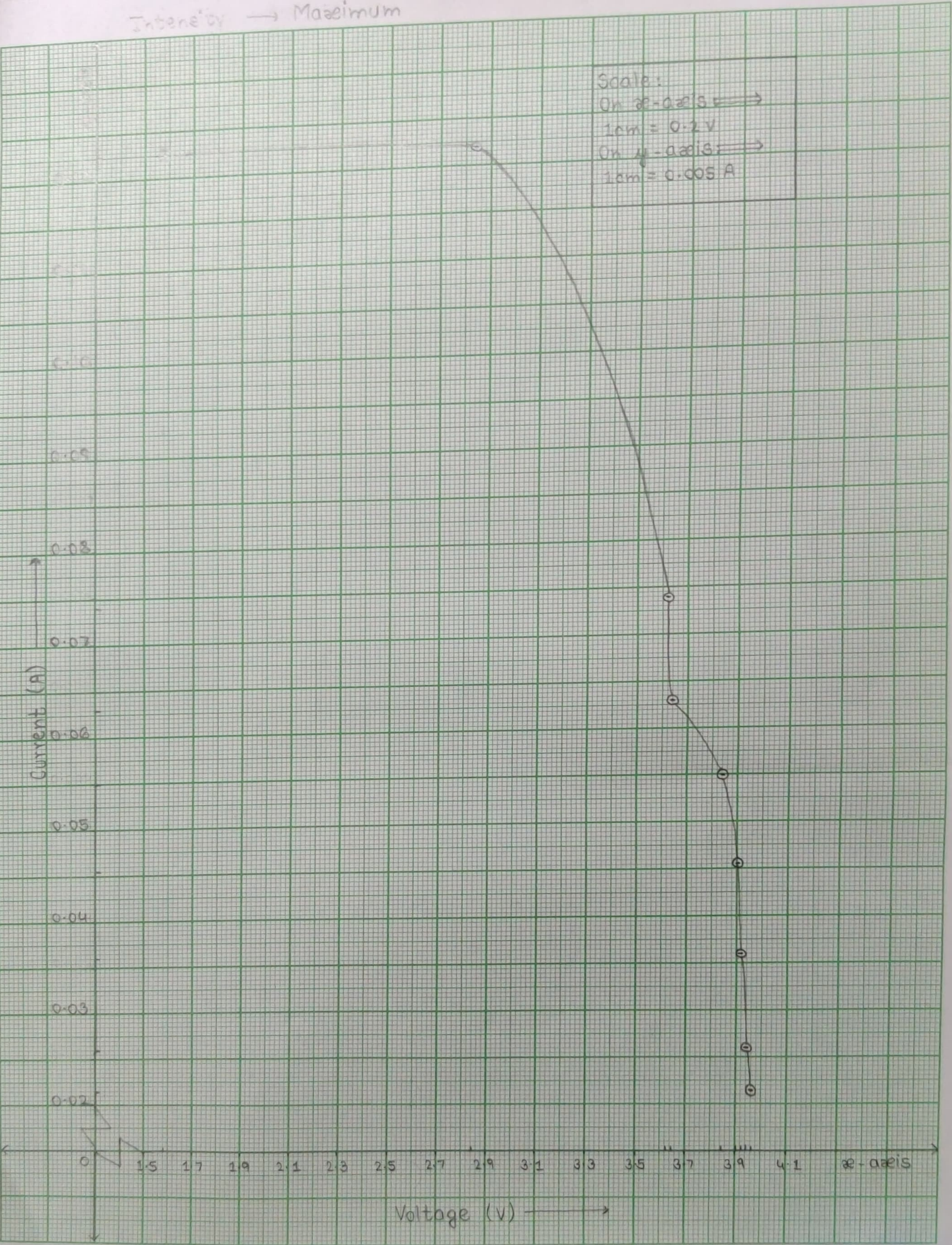
Intensity	Resistance	Voltmeter Reading	Ammeter Reading
	Ω	V	mA
Minimum	10	0·39	32·5
	22	0·77	32·2
	47	1·55	32·1
	56	1·84	31·9
	68	2·20	31·7
	82	2·61	30·5
	100	2·93	29·0
	160	3·43	22·8
	180	3·57	19·4

RESULT ⟹

The V-I and V-R characteristics of the solar cell is studied.

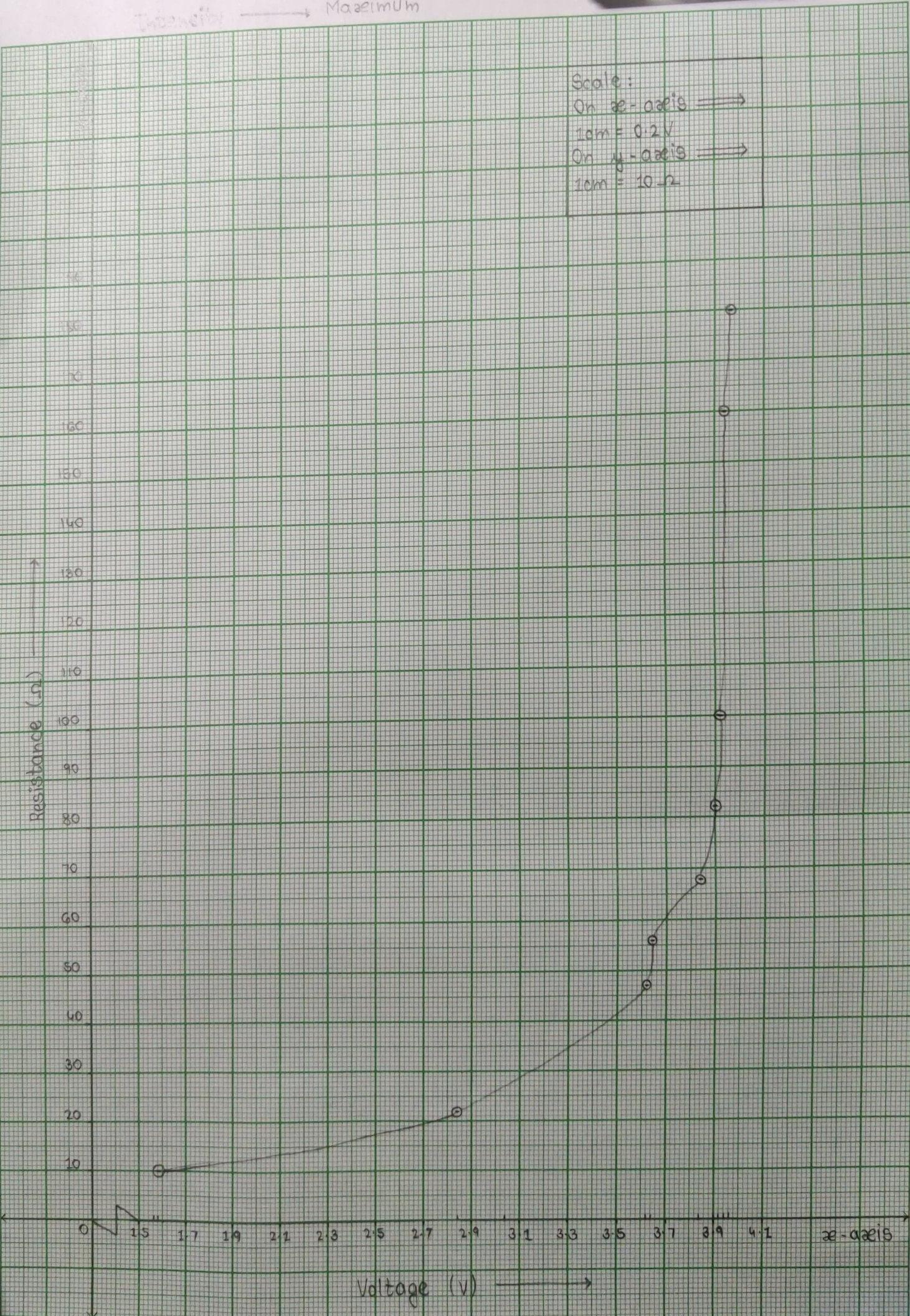
Teacher's Signature _____

Intensity → Maximum

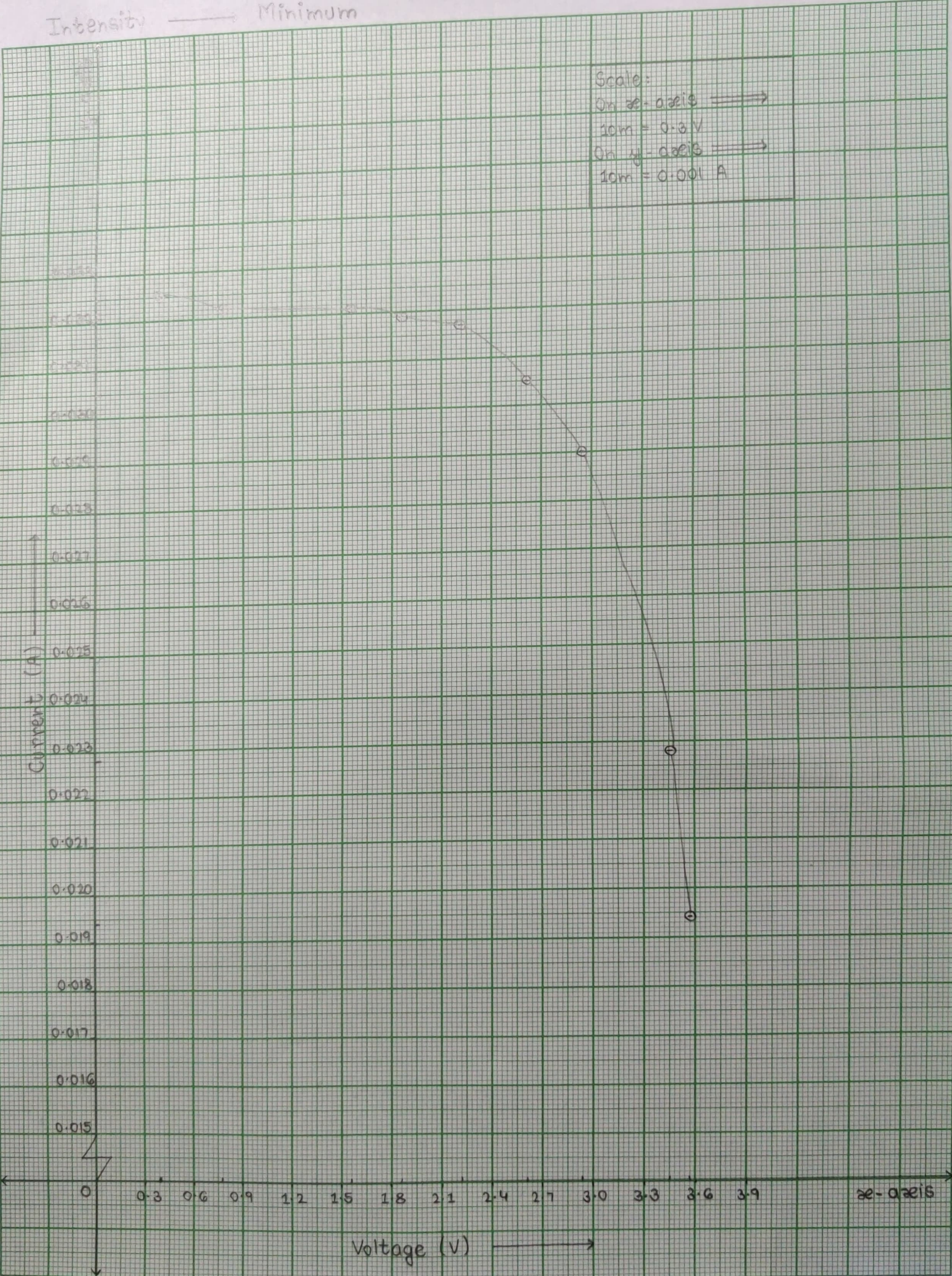


Intensity → Maximum

Scale:
On x-axis ⟶
1cm = 0.2V
On y-axis ⟶
1cm = 10 Ω



Intensity ——→ Minimum



Intensity ⟶ Minimum

Scale:
On x-axis ⟶
1cm = 0.3 V
On y-axis ⟶
1cm = 10 Ω