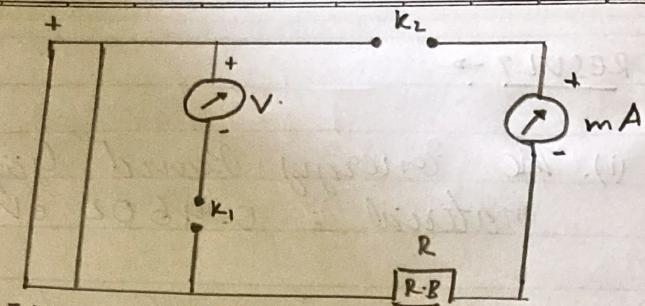


Photo
Voltaic
Cell



Schematic Representation and circuit of Solar Cell.

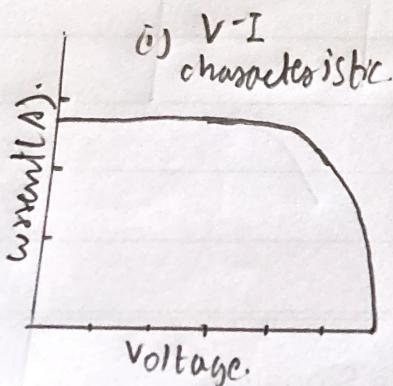
OBSERVATION TABLES

(i) V-I & V-R characteristics
For Maximum Intensity

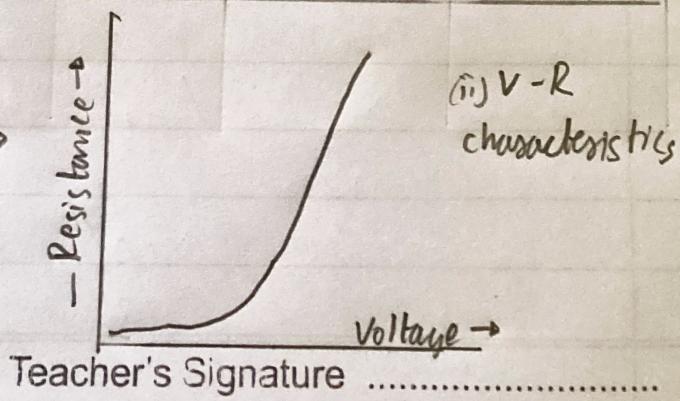
Resistance (ohm)	Voltmeter Reading (V)	Ammeter Reading (mA)
10	1.56	122.6
22	2.83	122.1
47	3.62	74.1
56	3.63	63.3
68	3.84	55.2
82	3.9	45.5
100	3.93	36.2
160	3.94	26.2
180	3.96	21.6

(ii) V-I & V-R characteristics
For Minimum Intensity

Resistance (ohm)	Voltmeter Reading (V)	Ammeter Reading (mA)
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



Model
Graphs



Teacher's Signature

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

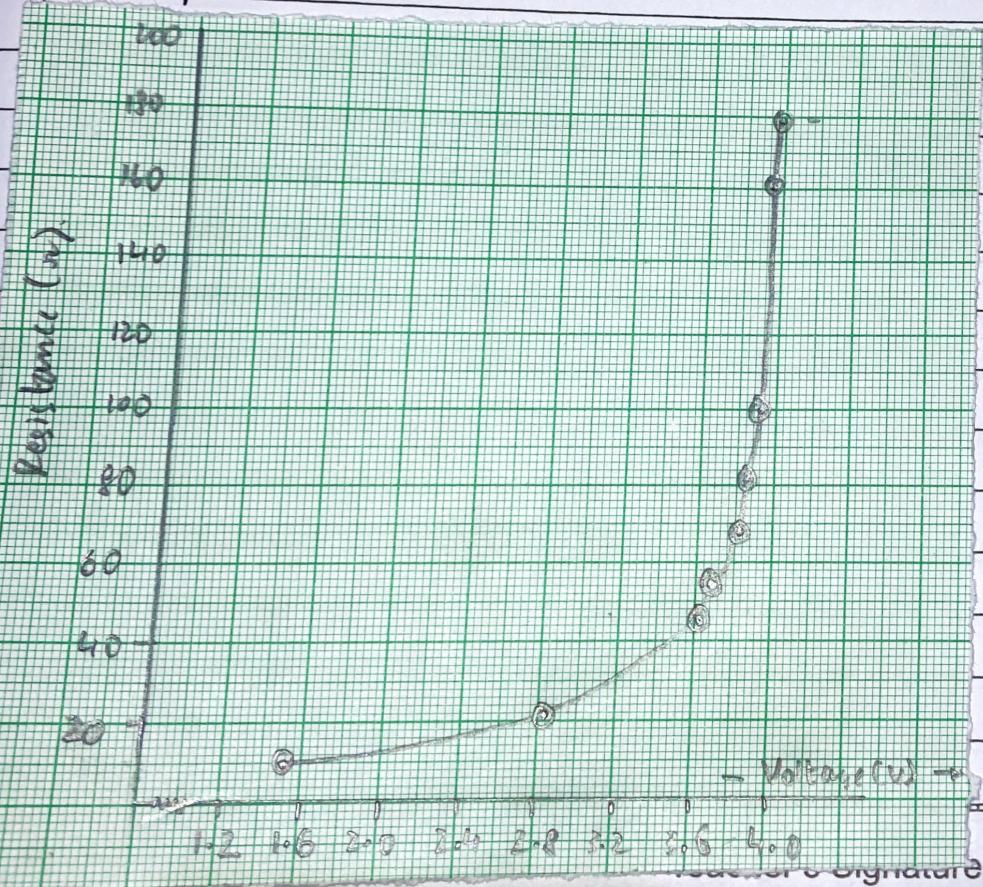
Aim:

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

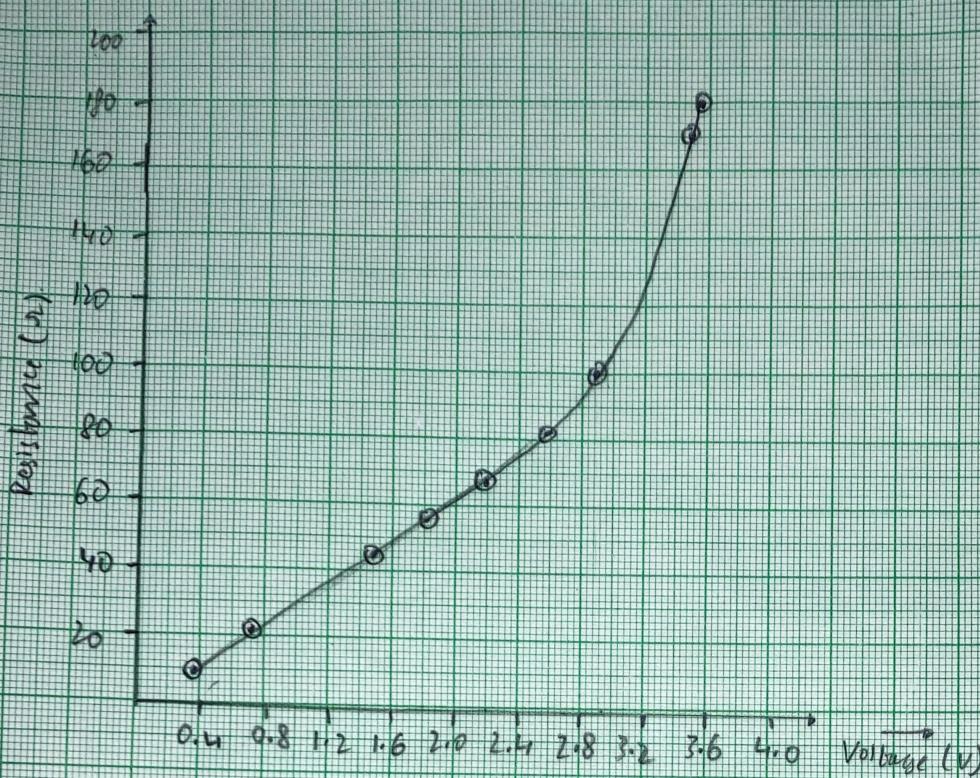
Apparatus Required:

Solar cell, voltmeter, milliammeter, a diode light resistance box, keys, illuminating lamps, connecting wires, etc.

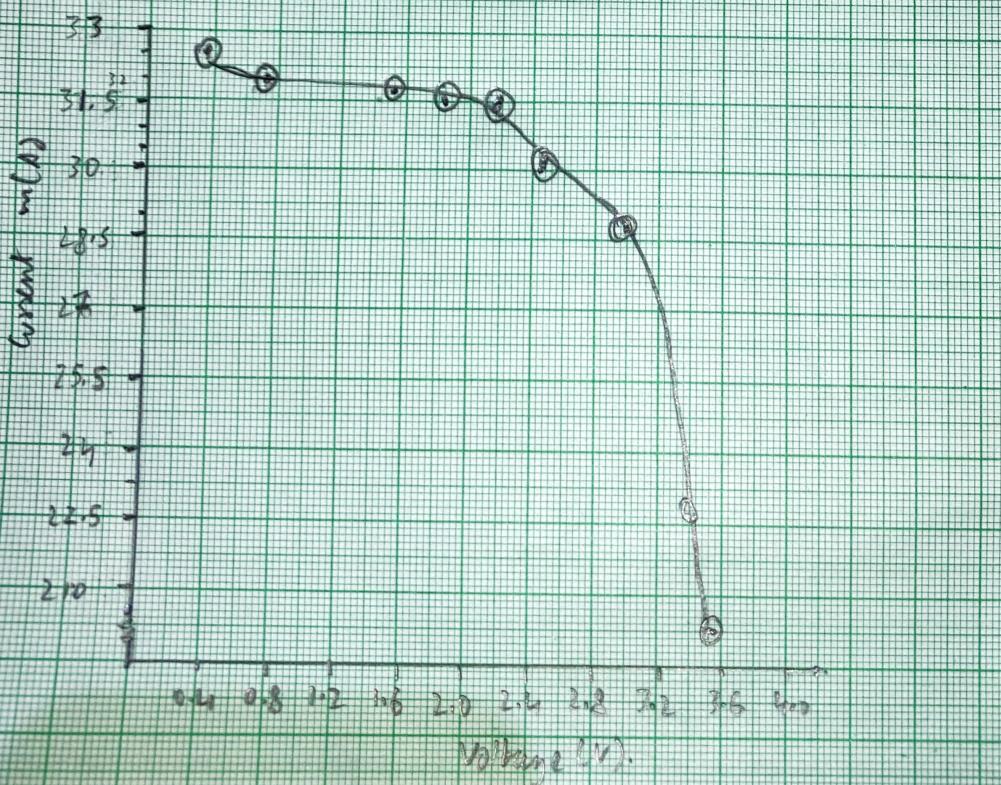
Graphs:



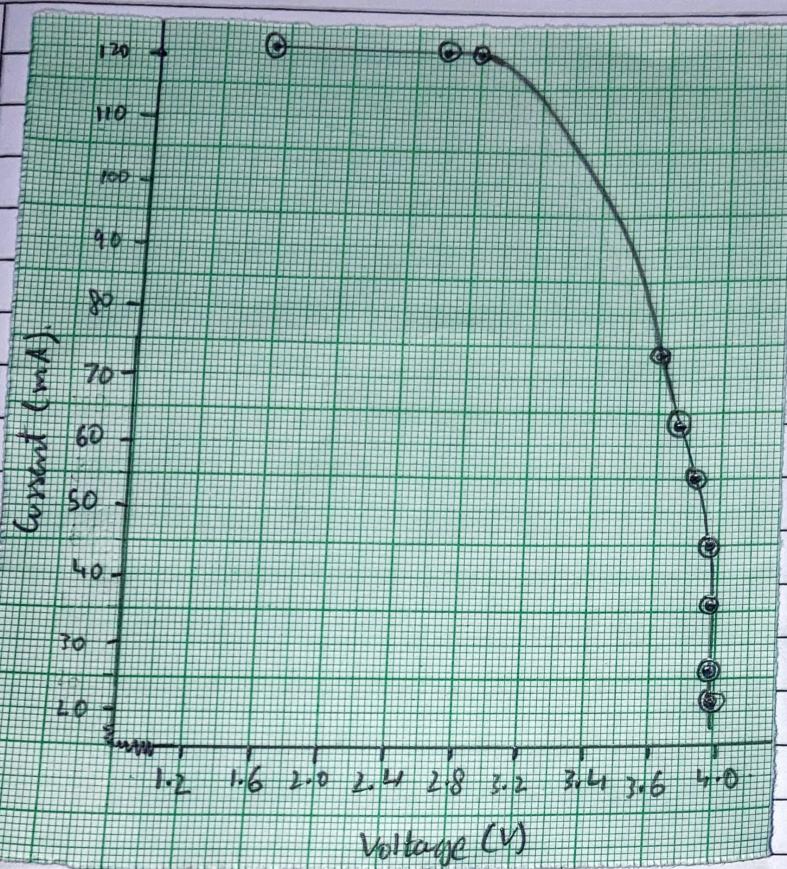
(i). V - R
characteristic
for Max
intensity.



(ii) $V - R$
characteristic
for
min
Intensity



(iii) $V - I$
characteristic
for
Min
Intensity



Result -

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

Teacher's Signature