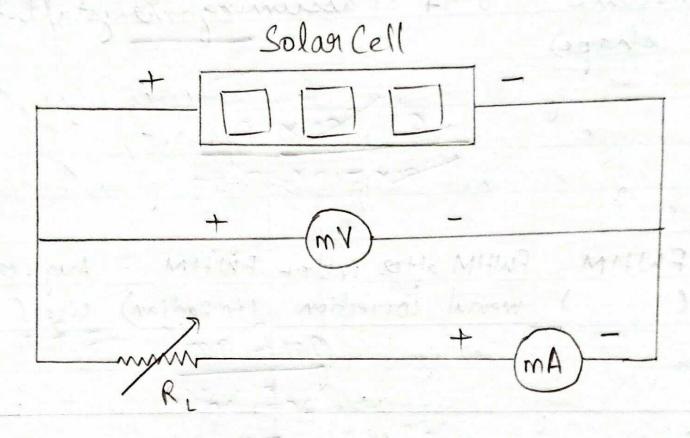
	Date.!!:.9:19
Expt. No6	Page No
CLEAN ENERGY	20 introduction
Aim: To draw the I-V cell to find out its	characteristics of a solar efficiency factor
Appointes Required  Solar cell  Light daysee	
Light source Ammeter Voltmeter Noad Presistance	
connecting wire	power generated Pmax = Vmp
FF = Vmp Imp	
$ \gamma = \frac{P_{\text{max}}}{A_{c} \cdot \Sigma} $	Ac - Area of solon cell 12 - incident intensity
) For distance $(n = 1 \text{cm})$ $I_{mp} = H_{mA} \times 13 \text{mA}$ $V_{mp} = 1550 \text{mV}$ $P_{max} = 0.01705 \text{ W}$	
$P_{\text{max}} = 0.01705  \text{W}$	Ac = 22.75 ×10-4 m²
0 217 WIM	

## Circuit Diagram!



Calculations:

M = Pmax Ac se

22.75×217 XH8 -4

= 1.

FF = Vmp Imp

- 1500x 130-3.2

9 x 1930

xpt. No	Page No		
Load Risistance	Intenció	ty of Light	
(2)	Current (m A)	Voltage (mV)	Power (w)
10	12	100	1.2 × 10
22	12	300	3.6×10
47	H	500	S.5 x 10
56		600	6.6×10
68	10	800	8 × 10 3
82	9	900	8.1 × 10-3
100	9	1000	9×10-3
150	7	1200	8 · 4 × 10
180	6	1300	7.8X10
1000		1500	1.5×10
			Himous 12/09/19
Kesult: I-V cha	ractivistics of	the solar cell	
helle A	tudied and m	ax power 9	inerated
FF and	studied and m	ere calculati	3
For az = 5 cm	0) = 0.018	32 1.82 % 1200	ATT
	£ = 5	) .24	
	À		
(10) Wino			
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