

## OBSERVATION:

Voltmeter reading when the LDR is closed =  $\frac{2.5}{0.5}$  V  
Ammeter reading when the LDR is closed =  $\frac{0.5}{1}$  A

Dark resistance =  $R = \frac{V}{I} = 5$  ohm

To determine the resistances of LDR at different distances

S.No	Distance	Voltmeter reading (V) volt	Ammeter reading (I) mA	RR K $\Omega$
1	A (Long distance) 26	0.4	0.6	0.66
2		0.9	1.6	0.56
3		1.4	2.5	0.56
4		1.9	3.4	0.55
5		2.4	4.4	0.54
1	B (Mid distance) 19	0.4	0.9	0.44
2		0.9	2.0	0.45
3		1.4	3.2	0.43
4		1.9	4.5	0.42
5		2.4	5.7	0.42
1	C (Short distance) 12	0.4	1.5	0.26
2		0.9	3.5	0.25
3		1.4	5.5	0.25
4		1.9	7.7	0.24
5		2.4	10.0	0.24



Ex. No: 1  
10.10.2022

# Light dependent Resistor - LDR

Scale

In X-axis 1 unit = 5 cm

In y-axis 1 unit =  $0.1 \Omega$

