

TO DETERMINE THE RESISTANCES OF LDR AT DIFFERENT DISTANCES ---

Sr.	Distance	Voltmeter	Ammeter	RR			
No.		Reading	Reading				
	Cm	(v) volt	(I) mA	K-v			
1.		1	4	0 - 250			
2.		2	6	0 - 333			
3.	A = 15cm	3	10	0.900			
4.		4	12	0 · 333			
5,		5	14	0 · 357			
		$MEAN \implies$	0.314				
1.		1	8	0.125			
2.		2	12	0.166			
3.	B = 10 cm	3	16	0 · 187			

The photoconductivity is the result of carrier excitation due to light absorption and the Figure of merit depends on the light absorption.

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4.		4	20	0.200
5.		5	24	0 · 208
			$MEAN \Longrightarrow$	0.177
1.0	ovuđan bu	turb 100 storie	10	0.100
2.	sk dapt o	2 2	30140-31297	0.142
3.	C = 5cm	3	18	0 · 166
4.		4	23	0 · 173
5.		5	28	0 · 178
			MEAN =	0 . 151

OBSERVATIONS =

- Voltmeter reading when the LDR is closed = 5V
- Ammeter reading when the LDR is closed = 14 mA. 2>
- Dark Resistance (R) = $\frac{V}{T}$ = $\frac{5}{14}$ = 0.357 kg. 3>

1)
$$V = 1V$$
; $I = 4 mA$
 $\therefore R = V = 1 = 0.250 \text{ kg}$

:,
$$R = \frac{V}{I} = \frac{1}{4} = 0.250 \text{ kg}$$

3)
$$V = 3V$$
; $I = 10 \text{ mA}$
 $\therefore R = \frac{V}{I} = \frac{3}{10} = 0.300 \text{ kg}$
 $\therefore R = \frac{V}{I} = \frac{1}{8} = 0.125 \text{ kg}$

$$V = 1V$$
; $I = 4mA$ 2} $V = 2V$; $I = 6mA$
 $\therefore R = \frac{V}{I} = \frac{1}{4} = 0.250 \text{ kg}$ $\therefore R = \frac{V}{I} = \frac{2}{6} = 0.333 \text{ kg}$

$$V = 3V$$
; $I = 10 \text{ mA}$
 $\therefore R = \frac{V}{I} = \frac{3}{10} = 0.300 \text{ kg}$
 $\therefore R = \frac{V}{I} = \frac{1}{8} = 0.125 \text{ kg}$

Exp	t. No	Page No
	efficiency. The increase in Increase in the number in the material.	
	ANN T US = V 18	- Amglet . Vs - V F
	2.95mg = 5 = 1 = 2 = 1	-a.v. cor. c = 1 = 1 = 2 .
	· · · · · · · · · · · · · · · · · · ·	98 2 2
		Andal = T - Va = V
		AND 0 = 6 = V = 9
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		T 1 / 6:
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$$V = 2V$$
; $I = 12mA$

$$R = \frac{V}{I} = \frac{2}{12} = 0.166 \text{ K-}\Omega$$

6)
$$V = 3V$$
; $I = 16 \text{ mA}$

$$\therefore R = \frac{V}{I} = \frac{3}{16} = 0.187 \text{ kg}$$

$$V = 1V$$
; $I = 10 \text{ mA}$
 $R = \frac{V}{T} = \frac{1}{10} = 0.100 \text{ kg}$

8)
$$V = 2V$$
; $T = 14 \text{ mA}$
: $R = \frac{V}{I} = \frac{2}{14} = 0.142 \text{ kg}$

9)
$$V = 3V$$
; $I = 18mA$
:. $R = \frac{V}{I} = \frac{3}{18} = 0.166 \text{ K.s.}$

Exp	t. No								Page	e No	
	RESULT	$r \Longrightarrow$									
1}			teristics	oF	LDR	we	re st	udied	and	plotted.	
2}	The	dark	resistan	ce	OF_	the	given	LDR	= 0.3	57 K.D.	
				-							
						,	,				
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