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Subject: Physics

Subject Code: 102001213

Class: 2-CE-1

Example No: 12002040701067

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\* Experiment -1

Objective: Study of characteristics of Silicon diode in forward bias.

Fquipments
needed: Measusement unit, portch coods.

Procedure:

Conclusion :-

1. Before Suitch 60N' measurement unit, connect the court as Shown in circuit diagram-1.

12 Switch GON? the powers Supply

3. Rotate potentionneters Pr. fully in counters clockwise direction.

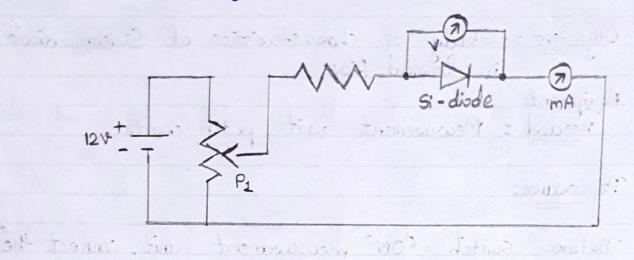
4. Vary the potentiometer Pr Fully in counter clockwise disection so as to increase the value of diode Vo from 0 to 14 in step 8 measure the Corresponding values of diode current To in an Observation

5. Plot a curve between diode voltage vo & current To as should shown in nature of graph.

We can conclude that how silican dode works in forward & bias. And how we can calculate the values from the graph.

VISION

Circuit Diagram: - Si-forward bias



Observation Table: - Tunes of man ? es division

Doing is

clockwise

Sx. No.	Diode Voltage Vo (Volts)	Diode Current Ip (mA)
1	0.1	0.0
02 00	000 mi pl 0.21 orbino	toba olo.0° &
3	0.33	0.27
4	0.38	2.19
25000	W plat 0.42 admoth	by all 6.17 1

values at diade Consent to the an Observation

Para 10 to 15 in stop & measure the Convergenting

Plat a charge between diade valling in 8 emacrit

conclusion =

We can calclude that has silven about in calculation in Bournard of bions about now we can calculate in the ignores that in calculate in the ignores about the ignores.