

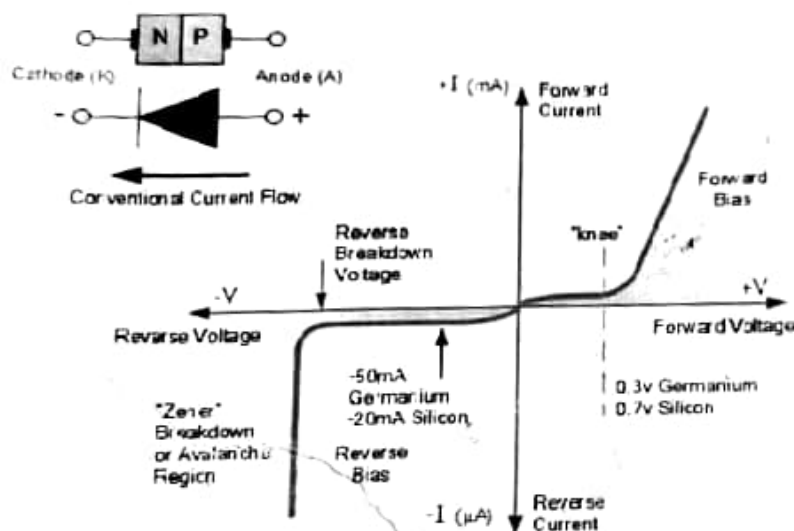
AIM OF THE EXPERIMENT

V-I characteristics of semiconductor diode(Silicon Diode)

REQUIREMENTS

	Quantity
1. Bread board	1
2. Transistor power supply(TPS)	1
3. Digital-multi meter	2
4. Silicon diode	1
6. Resistor(1K)	1

Characteristic curve:



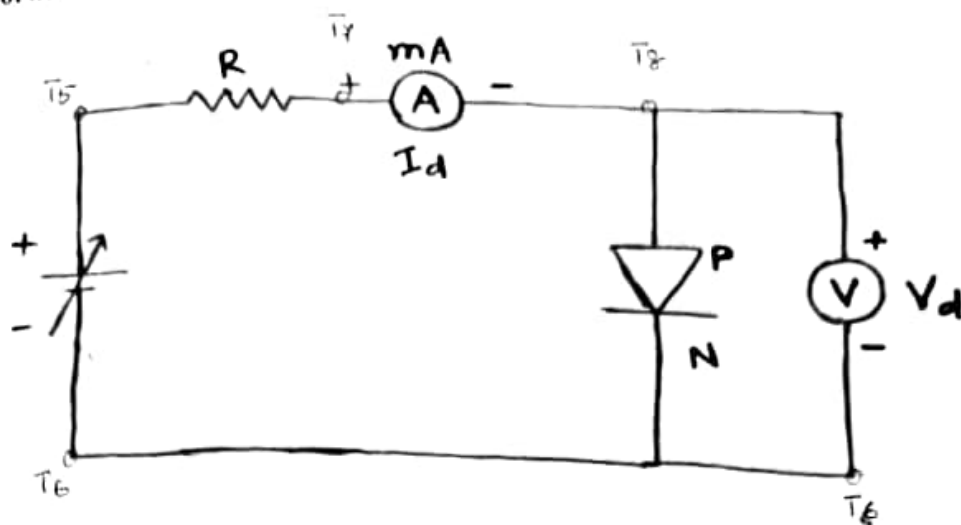
PROCEDURE

Connect the instruments and components as per the circuit diagram given below, by following the proper rules of bread board.

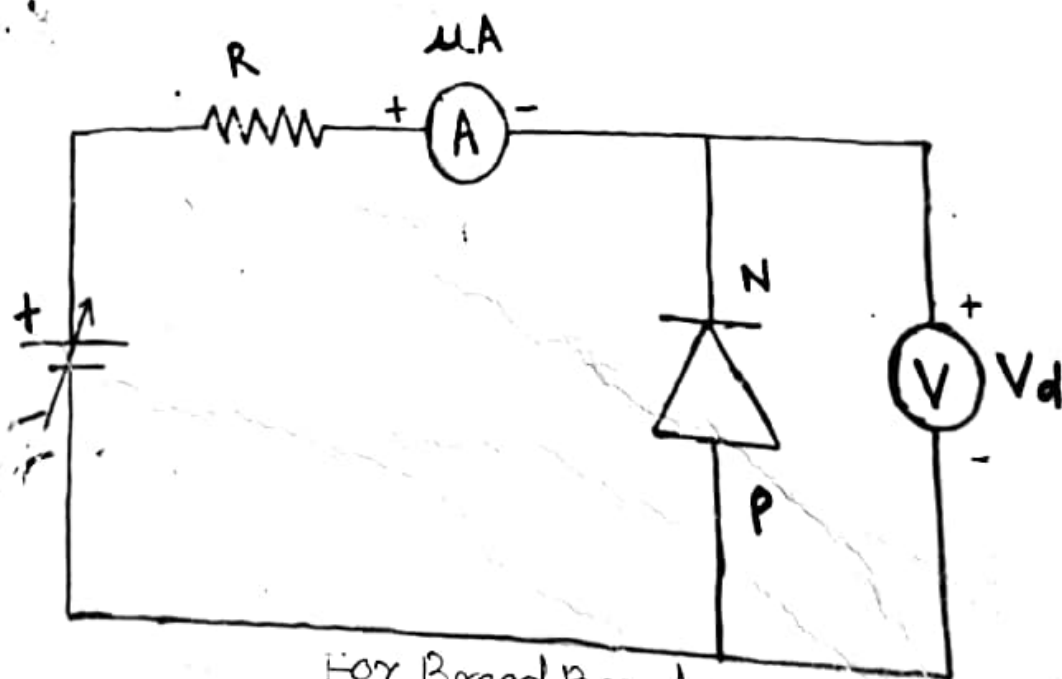
Apply dc voltage at the interval of $0.1V$ and $1V$ from TPS for forward and reverse bias respectively as input and measure output voltage (V_d) and current (I_d) in the multimeters.

CIRCUIT DIAGRAM:-

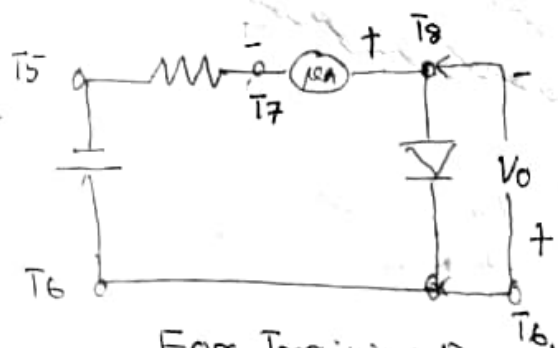
Forward bias:-



Reverse bias:-



For Bread Board



For Training Board

PRECAUTION:

Check the connection before switched ON.

TABULATION:-

Forward bias				Reverse Bias			
Sl. no.	i/p volt	V_d	I_d	Sl. no.	i/p volt	V_d	I_d