18 EES 101J - BEEF - Model Lab Exam.

GUESTION - 16.

20.07.2021.

Question 16:

ECE - A. RAZOIIODYOI BOSI KUNAL KESHANS

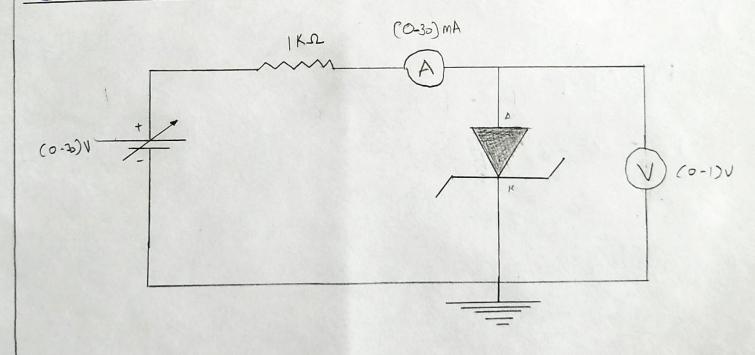
Conduct a Suitable experiment to obtain the Garward bias characteristics of a Zener Diode.

AIM:

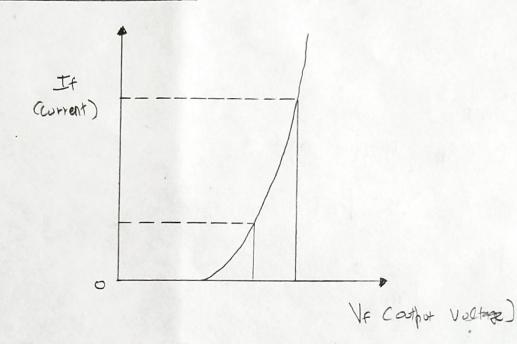
To obtain the Corward bias characteristics of a Zener dive.

CIRCUIT DIAGRAM:

Zener Diode in Forward Bies:



Forward Bias (MODEL GARAPH).



TABULATION:

5.40	Voltage	Corrent CMA)
1.	0.1	O
2.	0.2	0
3-	0.3	0
.4.	0.4	0
5.	b . S	2.09
6.	0,6	14-)
1.	0.70	
8.	0.11	-17-3 25-2
9,	0.73	
10.	0.75	36-7

VIVA:

Q. What is the need of Zener Diode?

Zenet diodes are used for Voltage Regulation for reflerence ellements, Switching applications, Clepper Circuits and more. The load Vultage equals the breaktown voltage of the diode.

a Give example of Trivalent impority?

Trivolent impurity atoms have 3 Valence electrons. Eg: Boron (B), Graplism (G) and Aleminium (Al).

RESULT:

The Borward bias property / Characteristics of the zener Diode have been Studied.

