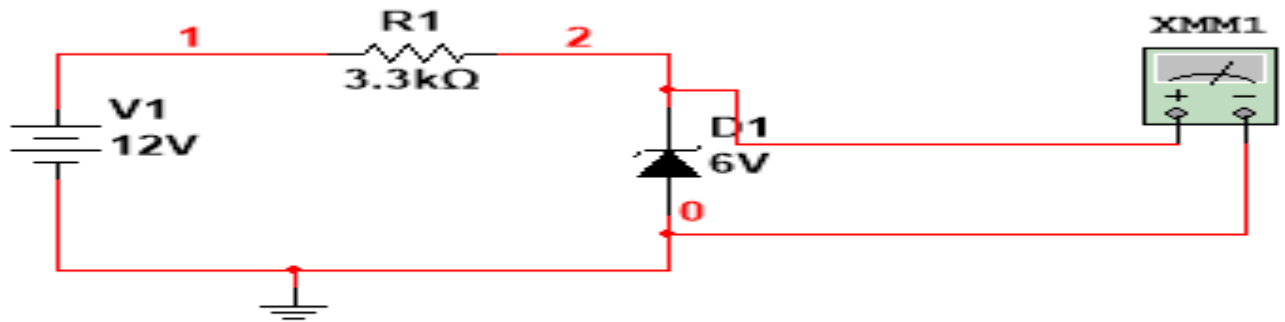


1.

I-V characteristics of zener diode in reverse bias condition

Md Saeem Hossain Shanto 1912218642

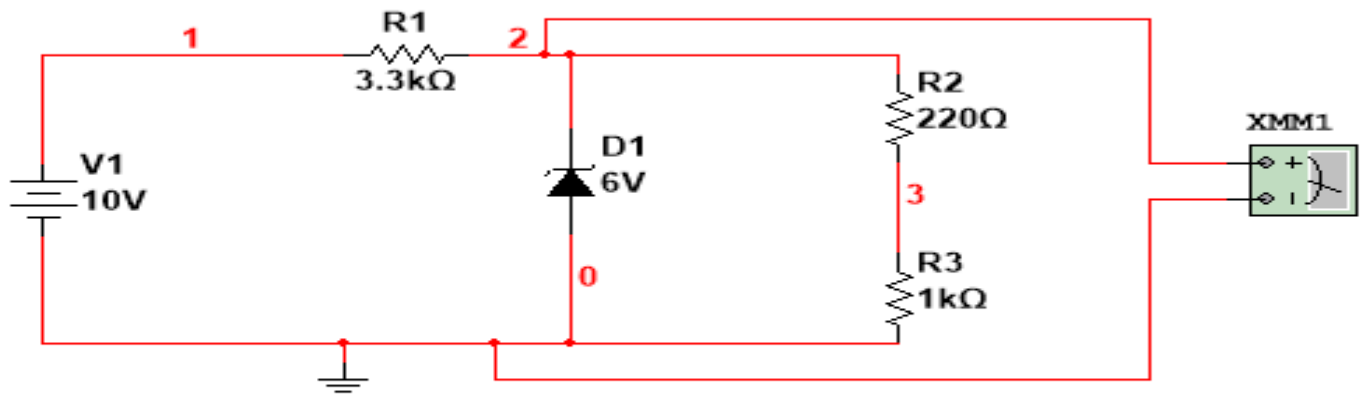


Reverse Bias Breakdown Characteristics

$V_{dc}$ (volts)	$V_z$ (volts)
1	0.999
2	1.999
3	2.998
4	3.998
5	4.997
6	5.874
7	5.918
8	5.931
9	5.939
10	5.944
11	5.949
12	5.952

## 2. Load regulation

Md Saeem Hossain Shanto 1912218642

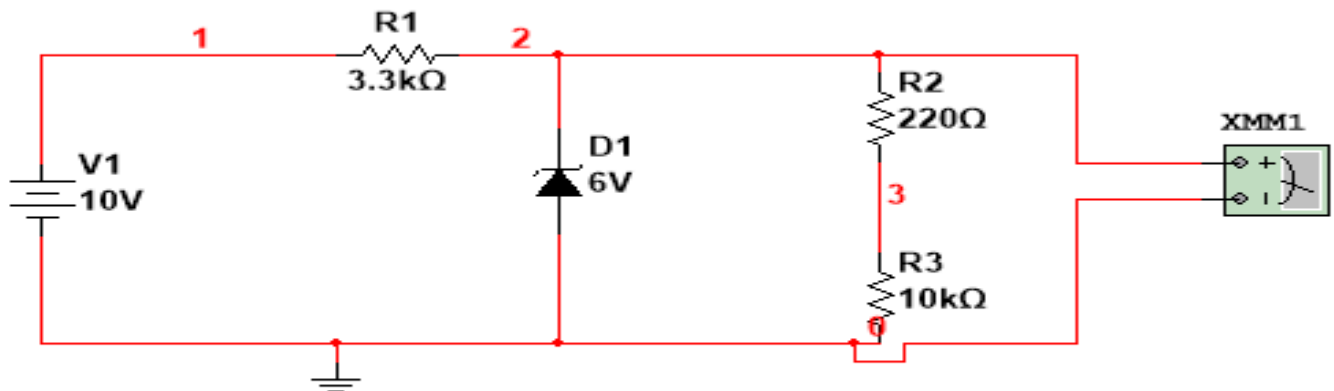


### Load regulation using zener diode

R (k ohm)	Vz(Volts)
1	2.699
2	4.021
3	4.937
4	5.610
5	5.896
6	5.915
7	5.922
8	5.927
9	5.930
10	5.932
11	5.933
12	5.934

### 3.Line regulation

Md Saeem Hossain Shanto 1912218642



### Line regulation using zener diode

$V_{dc}$ (volts)	$V_z$ (volts)
1	0.756
2	1.511
3	2.267
4	3.022
5	3.778
6	4.534
7	5.289
8	5.885
9	5.919
10	5.932
11	5.949

12	5.952
----	-------