## University Practical (BEEE)

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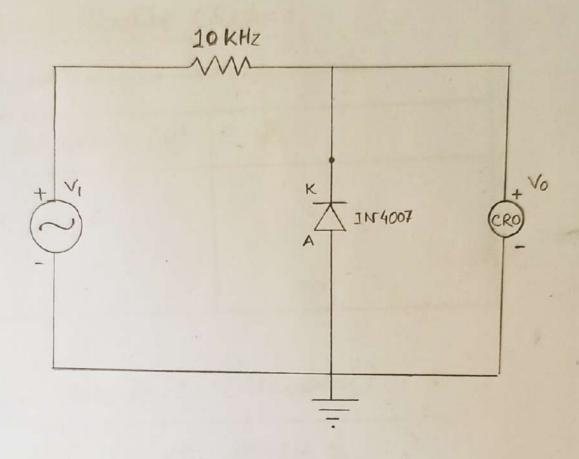
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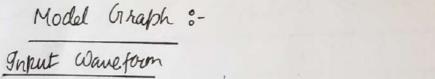
AIM: To study the clipping circuits for different reference. Voltages and to verify the responses inorder to clip the negative cycle of 1kHz input under urbiased condition and obtain the output voltage acron the load.

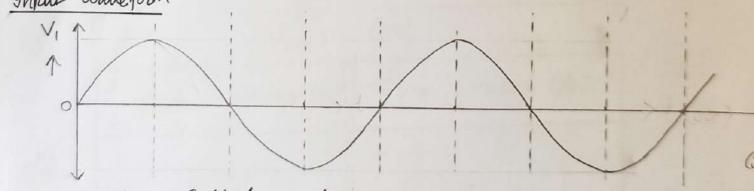
#### APPARATUS:

SL.No	Name	Range	Oty
1	CRO	1 HZ - 20 MHZ	1
2.	RPS	(0-30)V	1
3.	Bread Board	-	1
4.	connecting wines	_	Reg.
5.	Functur Generatur	1HZ-1MHZ	1
6.	Reniptor	10 K Hz	1
7.	Diode	IN4007	1

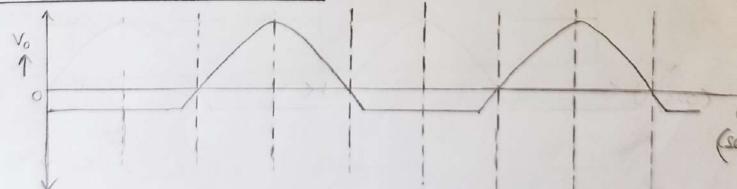
### Circuit Diagram:







Unbiased Clipper Output waveform.



# Jabular Column :- (calculatar) Unbiased Negative Clipper:

Vref = OV		
Output Voltage (N)	Jime Period (MS)	
-612.61	5	

Rosult: The Characteristics of unbiased Differ are studied from the e-circuit simulation and the graph. Here the negative cycle of 1 KHZ input voltage is differed using an unbiased clipper.

Vila:

Ans 1> Clippers can be used as:-

- · For generation of new usureforms of shaping the existing waveform.
- · It is used as a protection of transistor from transients
- · The excessive moine spikes above the certain level can be limited on clipped in FM transmitters by using series clippers.
- . They are frequently used for the apparatan of synchronizing signals from composite picture signals.

Ams 2> The frequency of a sine wave is the number of complete cycles that happen every second i.e. is other words, it is the number of waves that passed pass a fixed point is writ time.

The time poriod of a sinusodial wave is
the time taken taken to complete one
revolution (T). In other words, it is the
length of one cycle of the curve. It is
related to the prequency as  $T = \frac{1}{T}$ .

