

$$(V_1)$$
 P_1
 (V_2)
 P_2
 V_3
 V_4
 V_5
 V_6
 V_6
 V_7
 V_8
 V_8

CASE 1! Voltage at 0 2 @ is 10 V V1=10 V2=10 haverse .. Circuit becomes open (: Both DIED2) D2 EIKA :: No voltage gr drop across IKA resistor

CASE 2: Either VI = OV & V2= 10 V

CASE 3: (1) 21/12 10 mollov (100 08) + 01/2 = 101/12 V2=10V

biased

(Vo=0V]:

 $V_1 = 0 V V_2 = 0 V$ Due to one volt = 0 V, the Both are grounded Diode becomes Forward bias 2 acls as :. DI & D2 both forward short circuit. [VIL V2 are connected

.. [V0 = 0V]

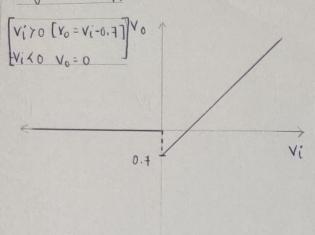
to ground) ic VI=OV

Touth Table (Theoratical)

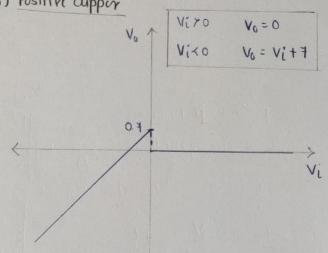
A ZEGOVA CONTRACTOR OF THE CON						
	INPUTS 190					OUTPUT (in volts)
	1 (voit)				2 (volt)	
	Yan		/s	A 51	1.01 = 01	Positive hot eject #
	0	(0)	15/14	0	(O) V	Man (o) Hope
	10	(1)		0	(0)	0 (0)
	0	(0)		10	(1)	explored (o) brings
	10	(1)		10	(1)	10 (1)

Therefore, Above circuit = AND Logic Gate

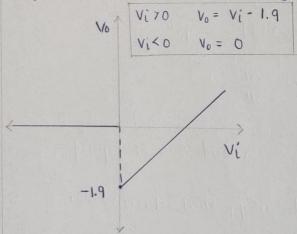
(A) Negative Clipper

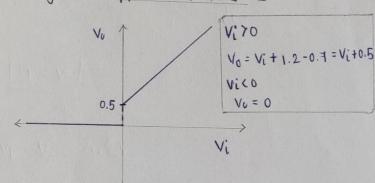


(B) Positive Clippor

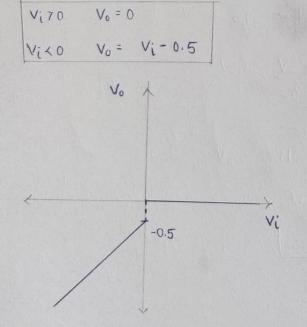


(C) Negative Clipper with Bias-I (1.2+07) (D) Negative Clipper with Bias-II



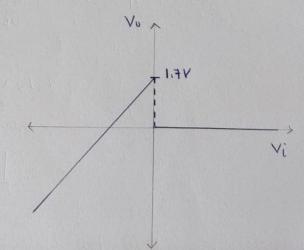


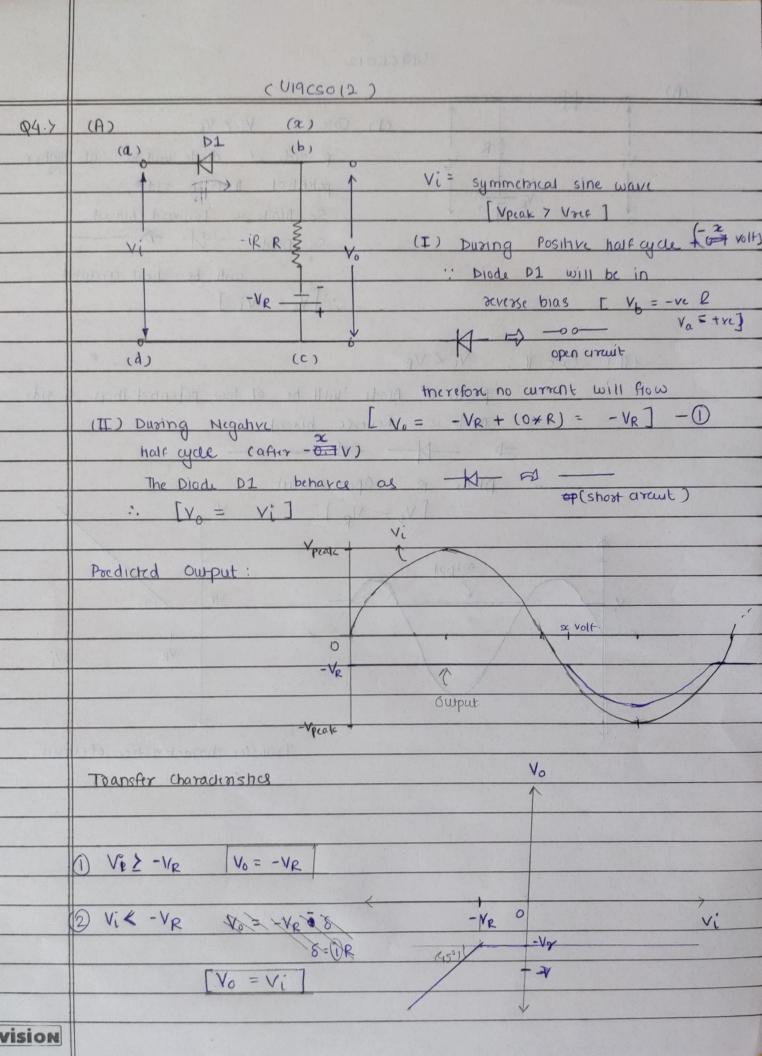
(E) Positive Clipper with Bias - I



(F) Positive (ij Clipper with Bias-II

$$V_{i} \neq 0$$
 $V_{0} = 0$ $V_{i} \neq 0$ $V_{0} = V_{i} + 1.9$





(B)

(I) Case I: Vi 7 VR p side of diode win he at higher

poknhal then n side,

So Diode is Forward Biased. So Diode - H - -

will be short-circuited

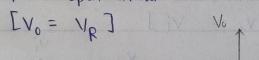
: [Vo = Vi]

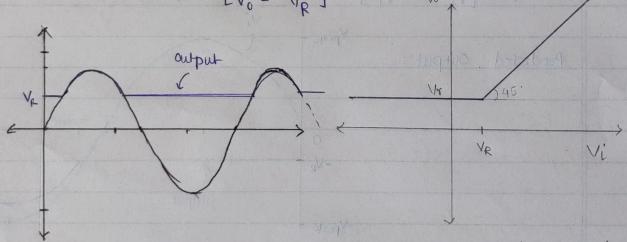
(II) Care II: Vi < VR

p side of Diode will be at low potential than a side

(1) So + Diode is - Reverse blased whom prime (1)

: Diode is Open-circuit





Transfer characteristics of circuit

1 1/2 - NE NO = -NE