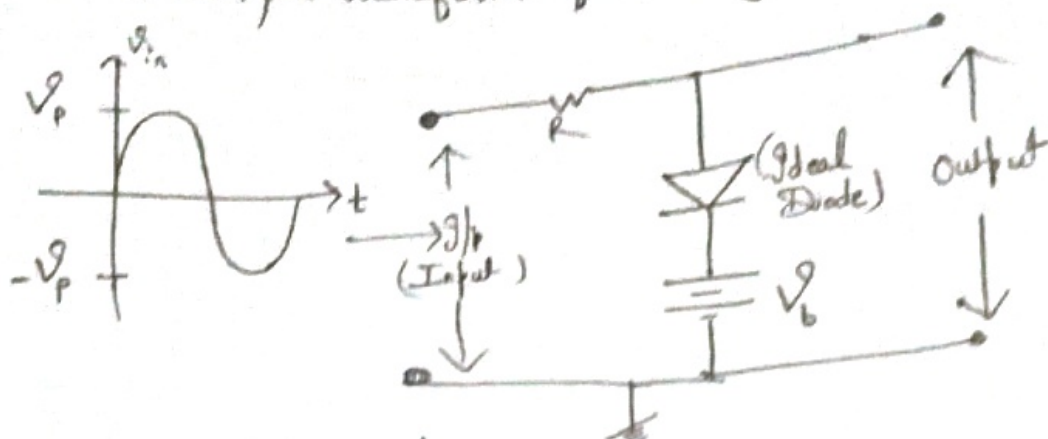


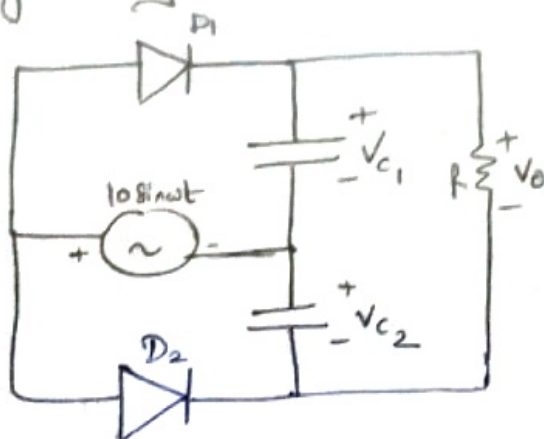
Tutorial

Ques 1) Find the output waveform for the given circuit:



Here V_p is the peak value of input signal & V_b is the DC voltage.

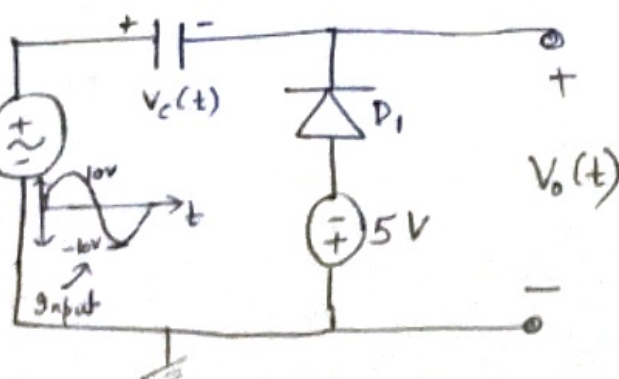
Ques 2) Find the steady state value of voltage V_o
Assume $D_1, D_2 \rightarrow$ Ideal, $RC \gg T$, C_1 & C_2 to be initially uncharged.



$V_o = ?$

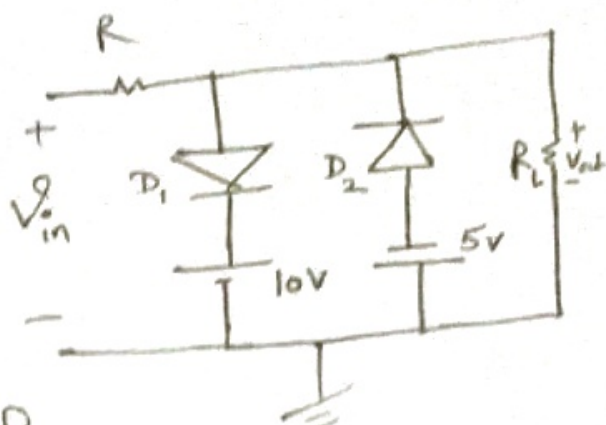
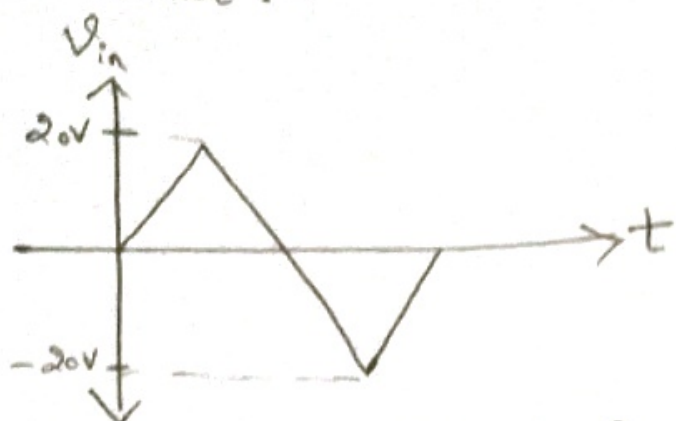
Ques 3) Plot the transient and steady state output waveforms for $V_o(t)$ & $V_c(t)$ for the following circuit:

Mention the maximum peak value properly in your output waveforms.



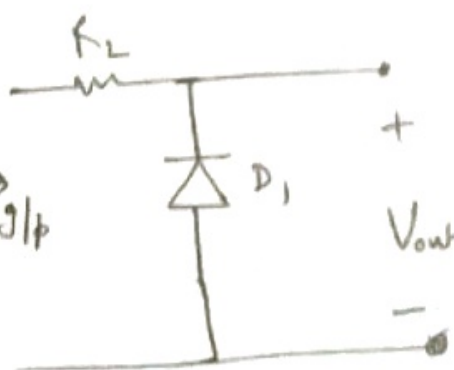
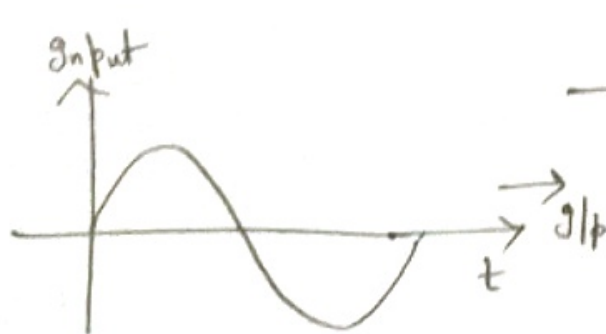
$D_1 \rightarrow$ Ideal Diode
Clamper circuit
Time constant Condition valid.

Ques 4) Draw the output waveform for the following Circuit :-



Assume diodes to be of Silicon or Ideal (Your wish).

Ques 5) How the operation of this clipper circuit will be affected as a result of following faults. Take each fault once at a time, no multiple faults together.



- Diode D_1 fails open
- Diode D_1 fails shorted
- Resistor R_L fails open
- Resistor R_L fails short

Also Explain why these faults will occur.