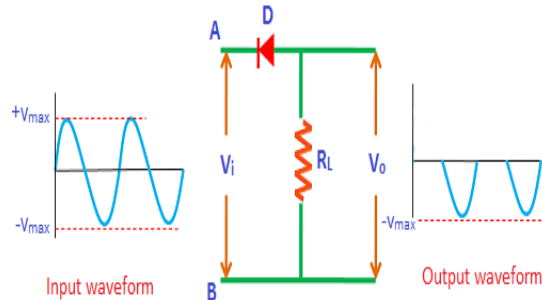


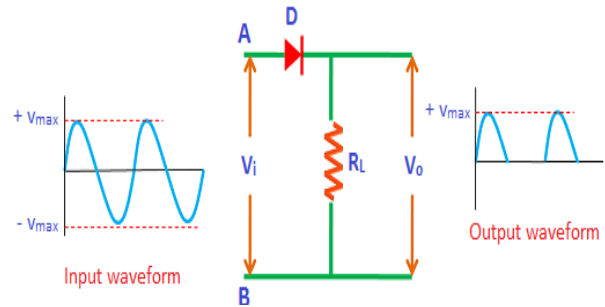
TUTORIAL SHEET 4

(Unbiased series clipper, biased series clipper, unbiased parallel clipper, biased parallel clipper, unbiased clamper and biased clamper using ideal diode)

Q1. Obtain output waveform for the given circuit with proper analysis.

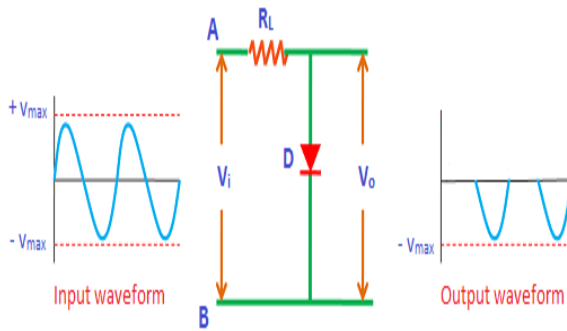


(a)

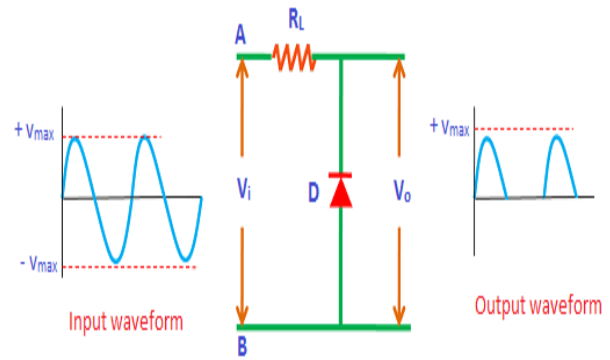


(b)

Q2. Obtain output waveform for the given circuit with proper analysis.

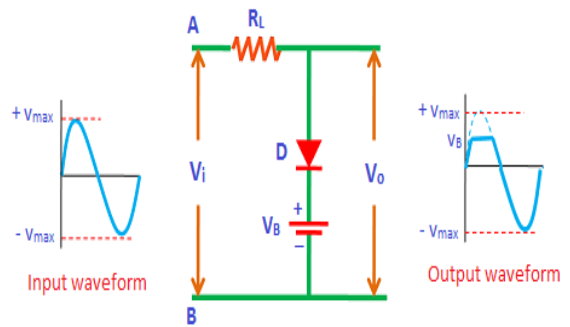
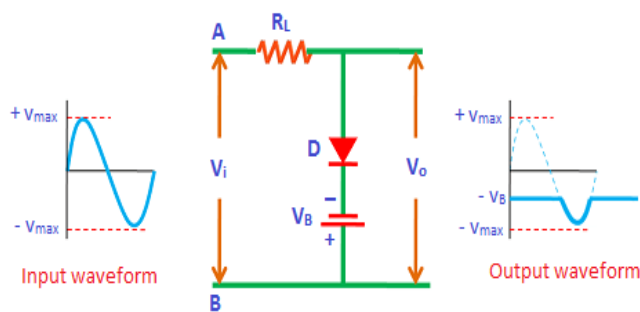


(a)

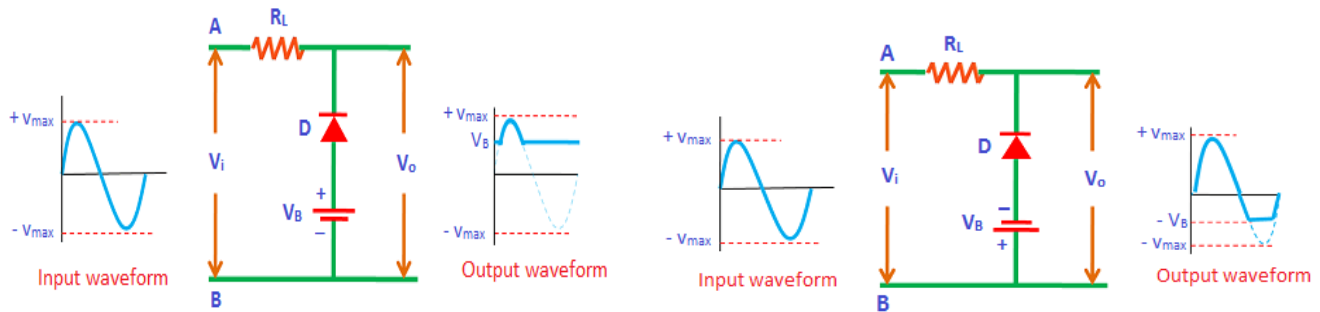


(b)

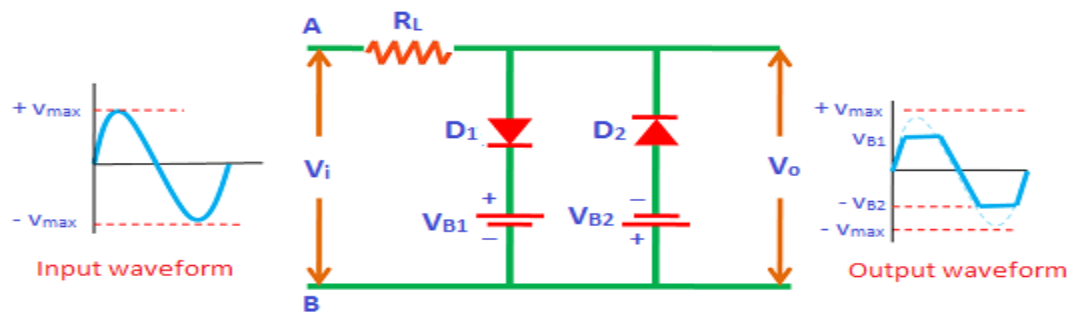
Q3. Obtain output waveform for the given circuit with proper analysis (consider $V_{\max}=12V$ and $V_B=4V$).



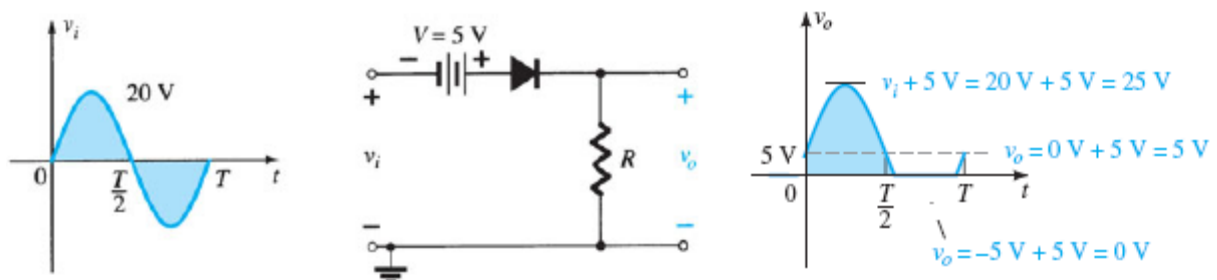
Q4. Obtain output waveform for the given circuit with proper analysis.



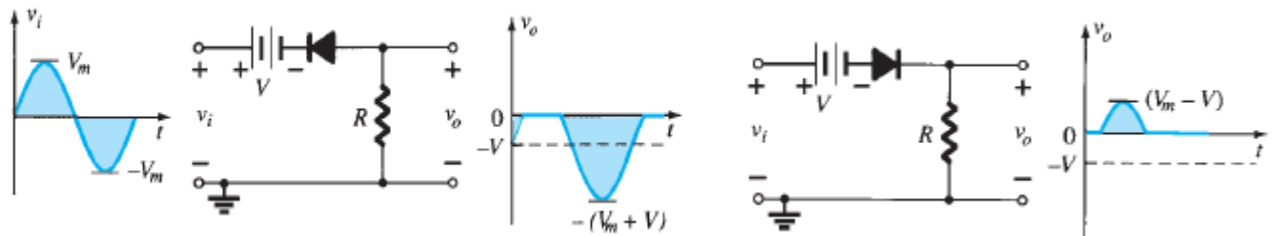
Q5. Obtain output waveform for the given circuit with proper analysis (consider $V_{\max}=15V$, $V_{B1}=3V$ and $V_{B2}=6V$).



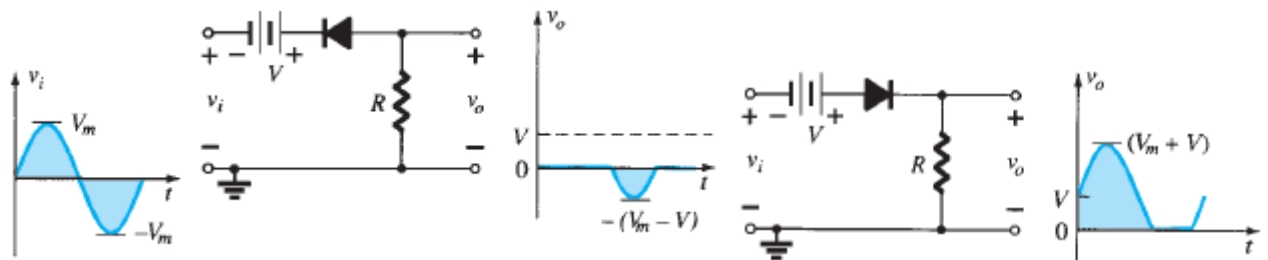
Q6. Obtain output waveform for the given circuit with proper analysis.



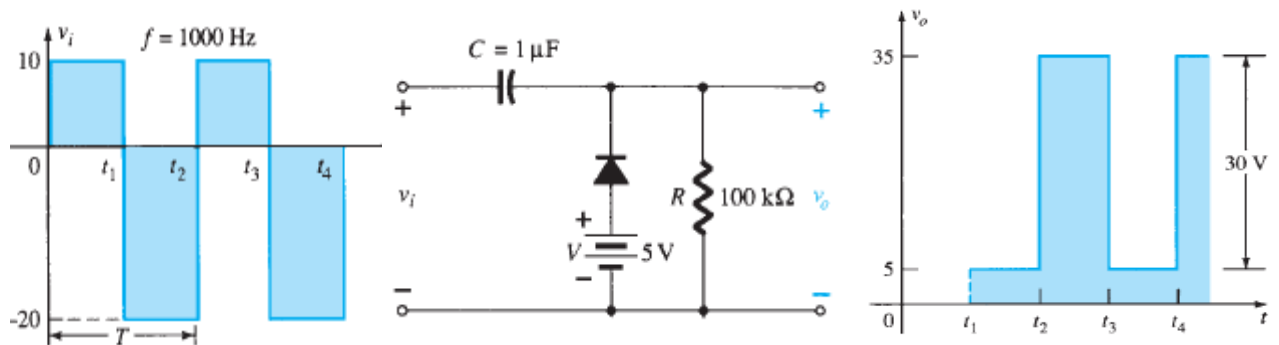
Q7. Obtain output waveform for the given circuit with proper analysis (consider $V_{\max}=12V$ and $V=2V$).



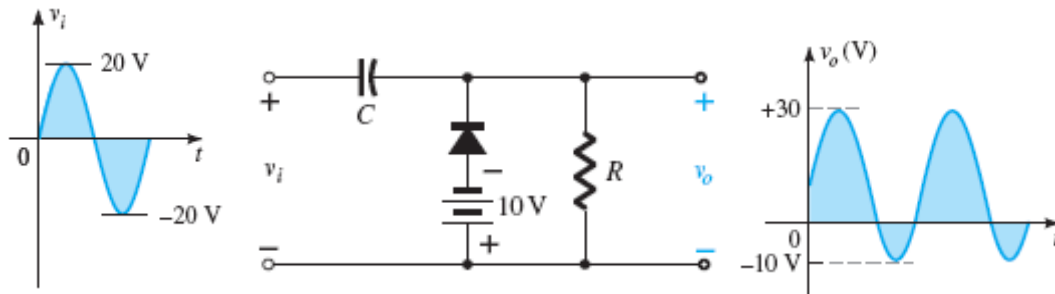
Q8. Obtain output waveform for the given circuit with proper analysis.



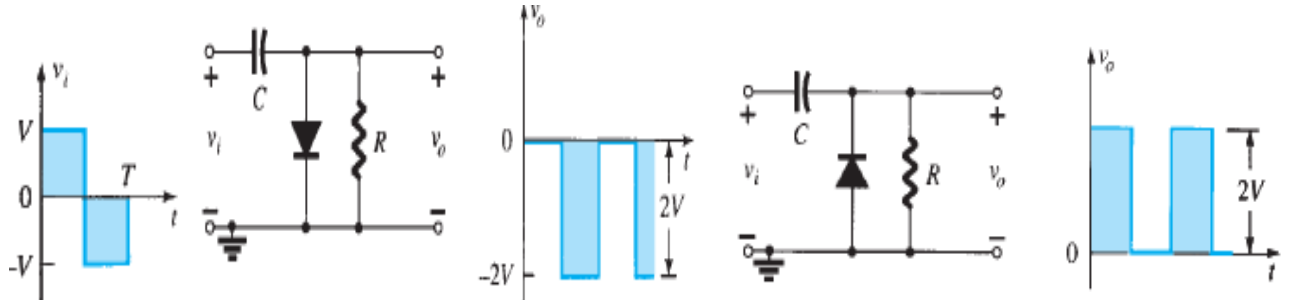
Q9. Obtain output waveform for the given circuit with proper analysis.



Q10. Obtain output waveform for the given circuit with proper analysis.



Q11. Obtain output waveform for the given circuit with proper analysis.



Q12. Obtain output waveform for the given circuit with proper analysis.

