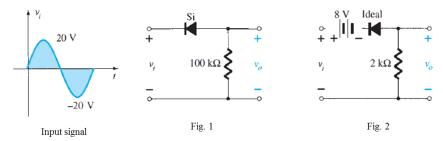
## JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY

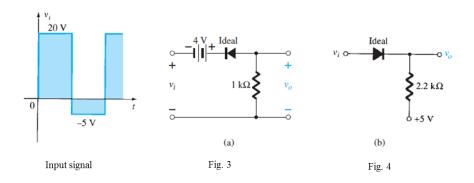
## **Electronics and Communication Engineering Electrical Science-II (15B11EC211)**

**Tutorial Sheet: 11** 

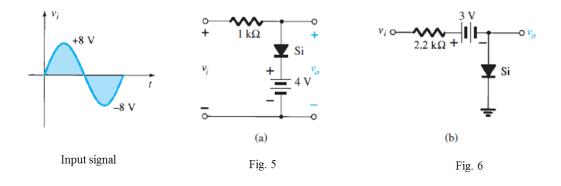
**Q.1**[CO3] Determine  $V_0$  for each network as shown in figure 1 and 2 for the input signal. Consider diode is a silicon diode.



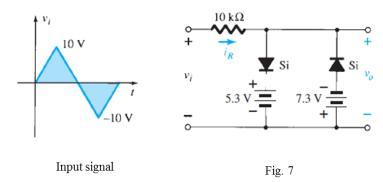
**Q.2** [CO3]Determine  $V_0$  for each network as shown in figure 3 and 4 for the input signal. Consider diode is a silicon diode.



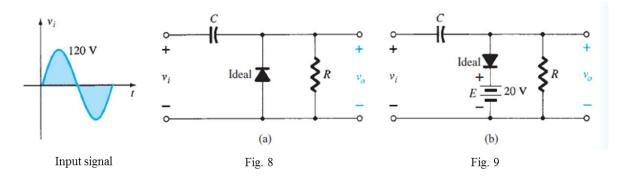
**Q.3[CO3]** Determine  $V_0$  for each network as shown in figure 5 and 6 for the input signal. Consider diode is a silicon diode.



 ${\bf Q.4[CO3]}$  Sketch  $I_R$  and  $V_o$  for the network is shown in figure 7 for the input signal. Consider diode is a silicon diode.

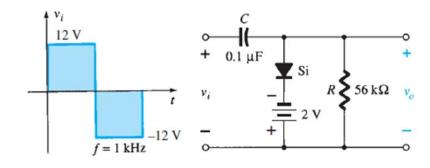


Q.5 [CO3] Sketch V<sub>o</sub> for the network is shown in figure 8 and 9 for the input signal.



**Q.6**[CO3] For the network of figure 10.

- a. Calculate 5 time constant  $(5\tau)$ .
- b. Compare  $5\tau$  to half the period of the applied signal.
- c. Sketch  $V_0$ .



Input signal

Fig. 10