

# ECE113: Basic Electronics (BE)

## Quiz-2

Date: 11-April-2025

Duration: 45 Minutes

Total Points: 14 Marks

[CO4] Q1: [3 Marks] Find the value of voltage  $V_o$  (in Figure-1).

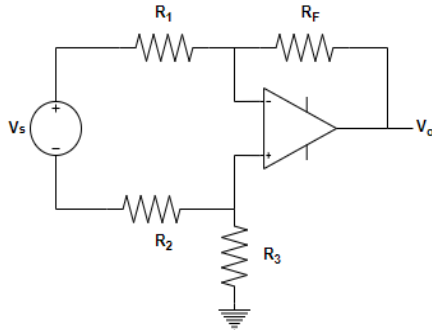


Figure 1

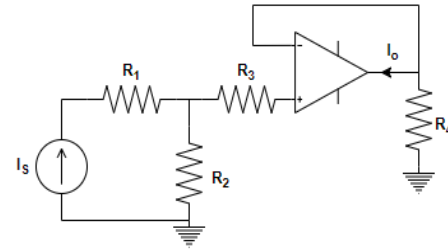


Figure 2

[CO4] Q2: [2 Marks] Find the value of current  $I_o$  (in Figure-2).

[CO5] Q3: [2 Marks] Draw the output ( $V_o$ ) waveform for the given input,  $V_i = \sin(\frac{t}{T})$  volts, where all given diode are ideal (in Figure-3).

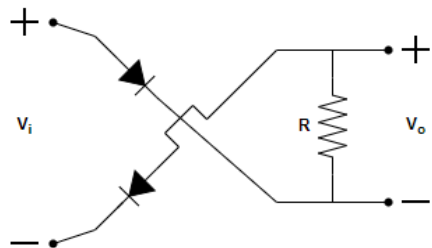


Figure 3

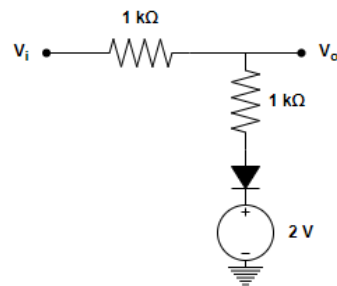


Figure 4

[CO5] Q5: [4 Marks] For the given circuit (in Figure-5), draw the following:

- a) Output waveform ( $V_o$ )
- b)  $V_o$  vs  $V_i$  waveform

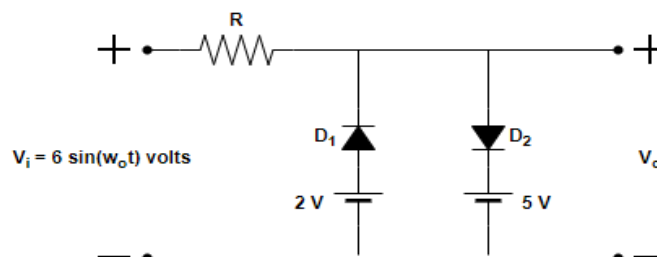


Figure 5