

## HOMEWORK

### 1) Explain the following words in one sentence.

Resistance:

Diode:

Capacitor:

Transistor:

Digital Multimeter:

DC and AC voltage source:

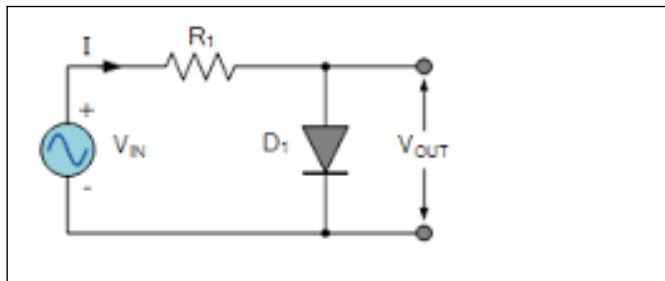
Oscilloscope:

Frequency generator:

Decade Box(Rheostat):

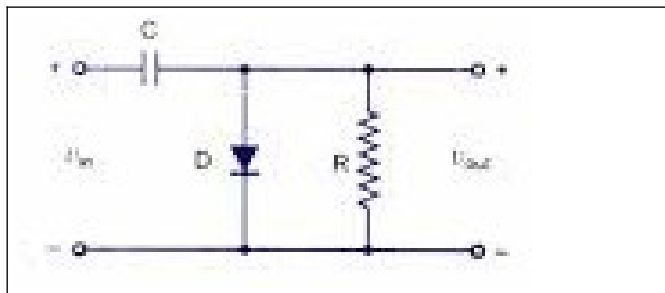
Circuit Board:

### 2) Clipper Circuit



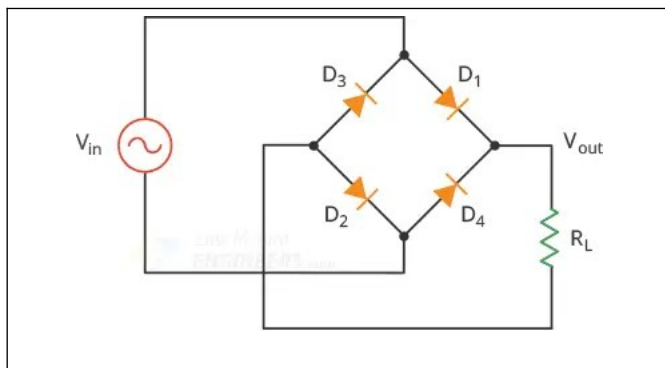
Set-up the circuit of Figure 1 in the lab sheet. Set the input voltage signal to a sinusoid with 1kHz frequency and 12V peak-to-peak amplitude with  $R=1k\Omega$  (or set the frequency, V peak-to-peak and resistance). Obtain and plot the input and output voltage waveforms.

### 2) Clamper Circuit



Set-up the circuit of Figure 1 in the lab sheet. Set the input voltage signal to a sinusoid with 1kHz frequency and 12V peak-to-peak amplitude with  $R=1k\Omega$  (or set the frequency, V peak-to-peak and resistance). Obtain and plot the input and output voltage waveforms.

### 3) Full Wave Rectifier



Set-up the circuit of Figure 1 in the lab sheet. Set the input voltage signal to a sinusoid with 1kHz frequency and 12V peak-to-peak amplitude with  $R=1k\Omega$  (or set the frequency, V peak-to-peak and resistance). Obtain and plot the input and output voltage waveforms.