

EXPERIMENT #11

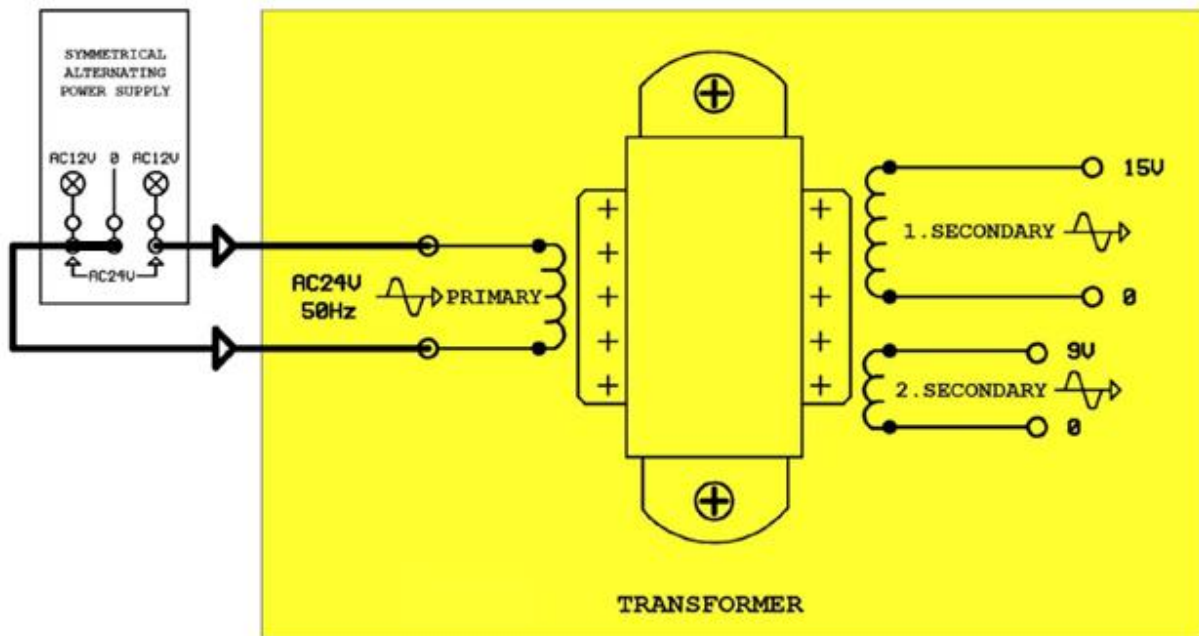
EXAMINATION OF TRANSFORMER

REQUIRED MATERIALS:

1. Function generator
2. Oscilloscope (two channels)
3. AC Voltmeter
4. Y-0016/03AC module
5. Connection cable

EXPERIMENT:

Plug the **Y-0016/03AC** Module.

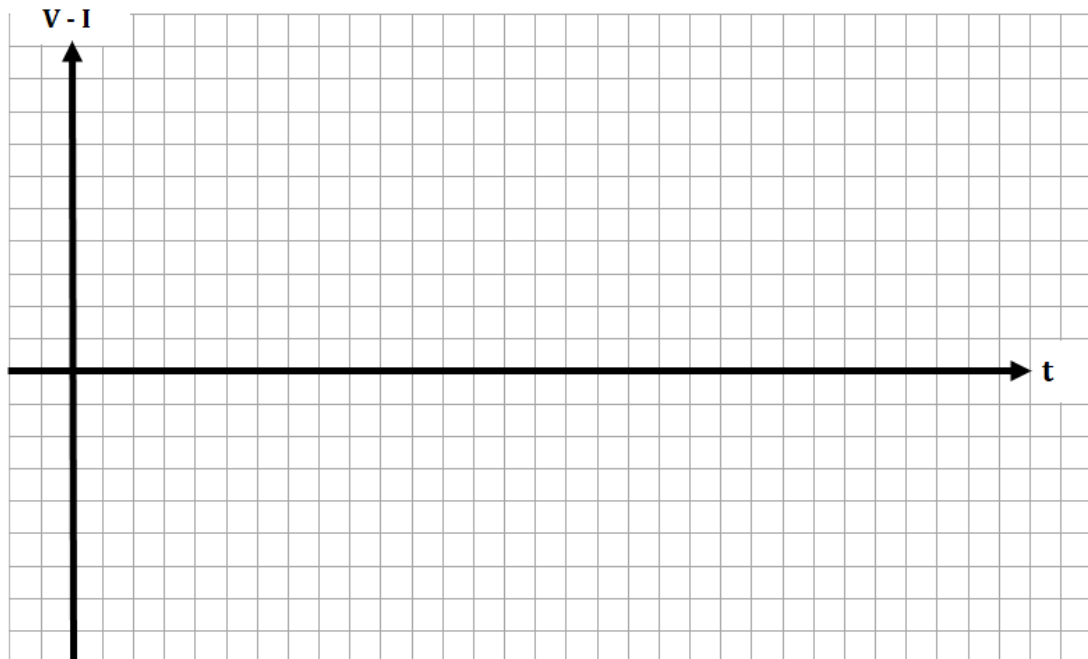


EXPERIMENT OBSERVATIONS

1. Is there an electrical connection between primary and secondary windings of transformer? Measure it with an ohmmeter. Write the result.

The experiment will be made with **12 Volt** in order to prevent electric shock. Make the circuit connections as in figure. Apply energy to the circuit.

2. Connect the oscilloscope CH1 to primary and CH2 to the secondary windings. Plot the waveform of the voltages connected to ch1 and ch2 of the oscilloscope



3. Calculate and write the primary and secondary voltage?

4. How does a change of primary voltage affect the secondary voltage?.

5. Apply **24 Volt** to the primary as shown. Calculate and write the primary and secondary voltage?.

