LAB RECORD (Weight: 30 %)

DC Circuit

From Step 2: Reference values used :

$R_L \approx$ ……Ohms , V_s knob at $\approx$ ……Turns, I_s knob at $\approx$ ……Turns.

From Step 3 : DC Currents:

I_1 = ……..mA, I_2 = ……..mA, I_3 = ……..mA.

From Step 4 : DC Node Voltages :

V_A = ……Volts, V_E = ……Volts, V_C = ……Volts.

AC Circuit [Steps 6 to 11]

Values of elements used [The RLC meter located on the Printer table can be used to measure
the exact values of L and C. Use the available measurement frequency of 1 kHz) :

R = ……., L = ……., C =……

[Make sure to also obtain your TA's signature on the printouts of Step 10]

TA Signature : ……..

LAB REPORT (Weight: 50%)

DC Results (See Step 5)

(a) KCL Verification :

(b) KVL Verification :

(c) Calculation of I_s:

(d) Power Balance:

Total Power Dissipated P_{diss} =

Total Power Delivered P_{del} =

AC Results

(Step 11)

Amplitude Ratio A_v = …….
Phase Shift ϕ = ……..at frequency f_1 = …….Hz

Amplitude Ratio A_v = …….
Phase Shift ϕ = ……..at frequency f_2 = …….Hz

Attach a final page to the report , summarizing what was learnt in the experiment and adding any comments that you may wish to make about it.