

EE232 Exp. #1

Electronic Circuit Basics

Report #1

**COURSE LECTURER:**

Assistant Professor Dr. Fulya Kunter

**LABORATORY INSTRUCTOR:**

Research Assistant Deniz Özenli

Prepared by

Name:

Surname:

#ID:

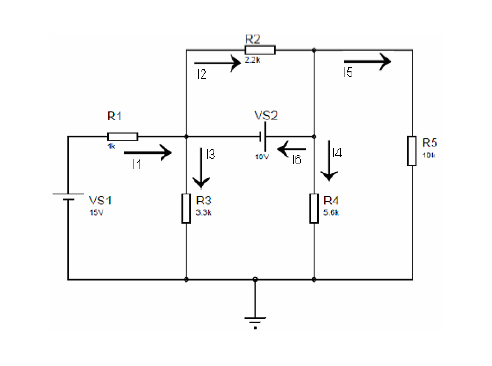
***CAUTIONARY REMARK: All questions will be answered in the assigned blanks. Don’t use extra place for the answers due to the fact that they are not guaranteed to be evaluated.***

**Part 1--Introduction:**  Explain the main objective of the first experiment on your own words. (10pt)

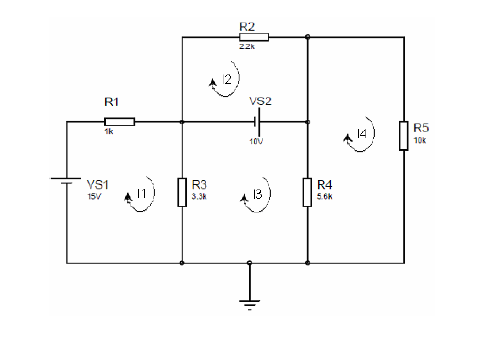
**Part 2--Procedure: a) Resistor Color Coding:** Explain the meaning of the color coding. Give an example from your experiment. (15pt)

**b)** Compare the calculated and measured resistance values during the lab. Is there big difference? If so, comment on reasons of that? (10pt)

**c)** Solve the following circuit using Node Analysis Method and KCL. Compare the measured values (during your experiment) and calculated values of the currents. (20pt)



**d)** Solve the following circuit using Mesh Currents Method and KVL. Compare the measured values (during your experiment) and calculated values of the currents. (20pt)



**Part-3--Conclusion:** Conclude your report with your learning from this experiment on your own words. Moreover, you can discuss or criticize some over-expected or under-expected sides of the experiment. (15pt)

**Part-4--References:** If you have referred parts, specify their references below. (10pt)