University of Jordan
School of Engineering
Electrical Engineering Department

EE 204
Electrical Engineering Lab

EXPERIMENT 1 REPORT & PRE Lab

INTRODUCTION OF MEASUREMENT DEVICES

Section #_____Group #

Student Name **ID**

1.
2.
3.
4.

PROCEDURE A - VOLTAGE AND CURRENT DIVISION

1. Use theoretical analysis to determine the expected current *I*. What equation did you use?

---

2. Using the theoretical current, what is the voltage divider equation for the voltage across R_1?

Table 1

I point a (mA)	*I* point b (mA)	*I* point c (mA)

Table 2

V_{ab} (V)	V_{bc} (V)	V_{ce} (V)	$V_{ab}+V_{bc}+V_{ce}$

3. Remove R2 from the circuit, connect it in any place on the breadboard and use the DMM to measure its resistance value.

---

4. Use theoretical analysis to determine the expected currents I_1, I_2, I_3 and *I*. What is the current divider equation for the current in resistor R_1?

---

5. Use DMM to measure the currents I_1, I_2, I_3 and *I*. Record these values in Table 3.

Table 3

I_1 (mA)	I_2 (mA)	I_3 (mA)	$I_1+ I_2+ I_3$	*I* (mA)