Electronics – Robotics

Lab: Use of a Digital Multimeter

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Has a functioning computer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Results report:

1. Does your meter have an on/off switch? ( ) Yes ( ) No

2. Does your meter read 0 ohms, or very close? ( ) Yes ( ) No

3. Voltage reading for a 1.5 V battery \_\_\_\_\_\_\_\_\_\_\_\_

Voltage reading for a 9 V battery \_\_\_\_\_\_\_\_\_\_\_

4. Cold resistance of a 7.5 Watt bulb \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Maximum output DC power supply \_\_\_\_\_\_\_\_\_\_\_\_\_

Maximum output AC power supply \_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Resistance of several carbon resistors:

(A) Resistor Number \_\_\_\_\_\_\_ Resistance \_\_\_\_\_\_\_\_\_\_ Colors \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(B) Resistor Number \_\_\_\_\_\_\_ Resistance \_\_\_\_\_\_\_\_\_\_ Colors \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(C) Resistor Number \_\_\_\_\_\_\_ Resistance \_\_\_\_\_\_\_\_\_\_ Colors \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(D) Resistor Number \_\_\_\_\_\_\_ Resistance \_\_\_\_\_\_\_\_\_\_ Colors \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(E) Resistor Number \_\_\_\_\_\_\_ Resistance \_\_\_\_\_\_\_\_\_\_ Colors \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Colors: Black/Brown/Red/Orange/Yellow/Green/Blue/Violet/Grey/White/