

MEEN 2210 Electromechanical Engineering Systems Spring 2011

Class Quiz #2 Class Period # 4 January 31, 2011

Name: _____ Section: _____

Point Values: Each question is worth 10 points except question #7 is worth 20 points.

1. Voltage is an across variable. What does that mean?
2. Current is a through variable. What does that mean?
3. The resistors used in studio are $\frac{1}{4}$ watt resistors. How could you determine if you exceed that limitation in an application?
4. What law do we use to describe the behavior of a pure and ideal resistor? Name the law and state it.
5. How do I know that two electrical elements are in series?
6. How do I know that two electrical elements are in parallel?
7. Name and state the two Laws of Nature that we apply in electrical circuit analysis?
8. Name one use for a potentiometer in an electrical circuit.
9. **T/F** For two resistances in parallel, the smaller resistor dominates, and, for two resistances in series, the larger resistor dominates.