Electronics and Instrumentation ENGR-4300 Fall 1999 Section _____ Extra Credit #4 1. Give, as completely as possible, procedures for determining the spring constant and the peak kinetic energy of a cantilever beam. 2. Give, as completely as possible, a procedure for determining the acceleration of a cantilever beam. 3. Give, as completely as possible, a procedure for determining the decay constant of a cantilever beam. What physical parameter can be determined from this constant? 4. Who was Joseph Henry; when was he born and when did he die?

5. Using realistic numbers, select a value for capacitance and voltage that will store the same energy as a 10 oz can of Coke.