

SC111: General Chemistry

NAME _____

Quiz 3 **Circle your section**

Dr. Joseph F. Lomax Section 3512

Dr. JudithAnn Hartman Section 4311

3 October 2003

1. In discussing thermochemistry, what do these following symbols represent? (3 points)

?E

q

w

When a gas is compressed from 39.92 L to 12.97 L at a constant pressure of 5.00 atm, 9.82 kJ of energy are released as heat. What are ?E, q, and w for this process? (101 J = 1 L atm) (6 points)

2. You wish to heat water for coffee. How much heat (in J) must be used to raise the temperature of 0.18 kg (1 cup) of tap water from 15EC to 86EC (coffee temperature)? Assume the specific heat of coffee is 4.18 J/gEC. (4 points)

SEE OTHER SIDE FOR MORE.

