Blitz, Unit 17, Form I-L

Name _____ Period ____

This is a Take Home Exam. **You may use your Notes, PowerPoint, or Text on this exam but NO help from human beings!**

You MUST <u>HAND WRITE</u> THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!

EXPLAIN IN COMPLETE SENTENCES AND GIVE EXAMPLES

1. TELL how THREE FACTORS will shift the equilibrium.

2. DEFINE *boiling poin*t and *vapor pressure* and give an example.

3. USE an EQUATION to show that boiling is a <u>cooling</u> process.

4. EXPLAIN *regelation* of ice and TWO of its uses.

5. Define *sublimation* and give two examples.

6. EXPLAIN *equilibrium* and its TWO conditions.

7. Find the total number of calories needed to change 23.0 g of ice at -34.0^oC to steam at 222.0^oC. Show all FIVE steps. The heats are: c for ice is 0.5 cal/g•C^o, H_f for ice is 80 cal/g, c for water is 1 cal/g•C^o, H_v for water is 538 cal/g, H_v for water vapor is 0.5 cal/g•C^o.

8. DISCUSS TWO ways to boil a liquid.

9. Describe **ten** of the fifteen *shocks* of Vapor Pressure and Boiling Point and explain them.

10. DESCRIBE a way to demonstrate that fog, clouds, and "steam" are liquid droplets and not water vapor.

When finished, please STAPLE this exam onto your papers and turn in on due date.