Blitz, Unit 17, Form A-C

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 HAND WRITE THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!

EXPLAIN IN COMPLETE SENTENCES AND GIVE EXAMPLES:

1. EXPLAIN *equilibrium* and its TWO conditions and give an example.

2. TELL how THREE FACTORS will shift the equilibrium.

3. DEFINE *vapor pressure* and *boiling point* and give TWO examples.

4. Find the total number of calories needed to change 12.0 g of ice at -22.3^{o}C to steam at 252.0^{o}C. 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}.

5. DISCUSS TWO ways to boil a liquid and give and example of each.

6. Using an EQUATION, show that boiling is a cooling process. Explain.

7. EXPLAIN how "Duckie" works (TWO principles).

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

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

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

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