Blitz, Unit 17, Form T-Z

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

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

3.   DEFINE *boiling point* and *vapor pressure* and give an example.

4. Find the total number of calories needed to change 14.0 g of ice at $-55.3^{\circ}C$ to steam at $145.0^{\circ}C$. Show all FIVE steps. The heats are: c for ice is 0.5 cal/g•C$^{\circ}$, H_f for ice is 80 cal/g, c for water is 1 cal/g•C$^{\circ}$, H_v for water is 538 cal/g, H_v for water vapor is 0.5 cal/g•C$^{\circ}$.

5.   Define *sublimation* and give two examples.

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

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

8.   TELL how THREE FACTORS will shift the equilibrium.

9.   EXPLAIN *equilibrium* and its TWO conditions.

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

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