

MEMORANDUM Chemistry Department

To: Bill, Nellie, Melissa, Carolyn, Randy
From: John I. Gelder
Date: February 28, 2001
Re: Grading PS#5

STAFF MEETINGS...FRIDAYS, 12:30 p.m. PS117.

The answers to PS #5 are attached. After reviewing the problem sets I have decided we should grade problems PS5.2, PS5.3, and PS5.6 for 3 points. The maximum possible on the problem set is twelve points. The remaining three points are awarded on an all or nothing basis for completion of the remaining problems. Note: If the word 'Late' is written at the top of the Problem Set grade as usual but deduct 3 points from their total. Note: 'Late' means the student found me at the end of class or immediately after class. I will not accept Problem Sets more than a few minutes after class is over, and such cases will have a minimum of 3 points deducted from their score.

Please return the graded problem sets to your students in laboratory next week. Be sure to record the scores for each student.

Copies of the answers and the grading memo are on the WEB.

Grading the Review Problem Set

- PS5.2 **3 points** In part a, one point for identifying acetic acid as the more soluble of the pair because of hydrogen bonding. 1 point for providing a solvent that ethane would dissolve. In part d) 1 point for identifying ammonia as the more soluble of the pair because of hydrogen bonding.
- PS5.3 **3 points** Looking at the sketches for NaCl: 1 point for at least three water molecules in the proper orientation around a chloride ion, 1 point for at least three water molecules around the sodium ion in the proper orientation and one point for the type of intermolecular attractive forces that are occurring.
- PS5.6 **3 points.** 1 point each for part a, b and c. Pretty much R/W. The calculations **MUST** be there for the point in each case.
- 3 points** For attempting the remaining 7 problems. Remember each problem must have an answer, an attempt. If the student writes nonsense for any of the other answers deduct the 3 points.