

Name _____
Section _____
Last 4 digits of SS _____

Chemistry 109
Quiz 7 3/21/00

THERE IS NO NUMBER OF IMPLIED CORRECT ANSWERS TO QUESTIONS (ALL COULD BE RIGHT, ALL COULD BE WRONG). CLEARLY CIRCLE ANY CORRECT ANSWERS!

1. (3 pts) What is the correct formula for copper(II) sulfate pentahydrate?

- a) $\text{CuSO}_4 \cdot 7\text{H}_2\text{O}$ b) $\text{Cu}_2\text{SO}_4 \cdot 5\text{H}_2\text{O}$ c) $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

2. (3 pts) You heat 1.0 g sodium carbonate decahydrate ($\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$) to obtain anhydrous sodium carbonate. How many grams do you expect to get? (approximate atomic weights: Na, 23; C, 12; H, 1; O, 16)

0.37 g

B. (3 pts) What is the correct formula for gypsum?

- a) $\text{Ca}_2\text{SO}_4 \cdot \text{H}_2\text{O}$ b) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ c) $\text{Ca}_2\text{SO}_4 \cdot 2\text{H}_2\text{O}$

3. (2 pts) If a salt is deliquescent you expect it to:

- a) attract moisture from the air until it dissolves in it.
b) readily give off hydration water when exposed to air.

You will lose one point for each wrong assignment, or to a minimum of 0 points for a particular question.