Done Manday 10[18/2021 Name Auga Turner Instructor

## Pre-Lab Study Questions

1. What is meant by the simplest formula of a compound? The lowest whole number ratio of the atoms in the formula.

How does a hydrate differ from an anhydrate? Hydrate is an ionic compound with water and annydrate is an ionic compound without water.

3. What happens when a hydrate is heated? When a hydrate is heated, it has the water removed and becomes an annudrate.

- 4. A hydrate of CoCl2 with a mass of 6.00 g is heated strongly. After cooling, the mass of the ambydrate is 3.27 g.
  - a. How many grams of H<sub>2</sub>O were lost from the hydrate?

2.73 g H20 b. What is the % water in the hydrate?

2.73 × 100 = 45.590 of H20

e. What is the formula of the CoCl<sub>2</sub> hydrate?

Coci. . HO

d. Write the equation for the dehydration of the CoCl<sub>2</sub> hydrate.

CoC12 + 420 -> CoC12 + 420

# **Answers To Introduce Chemistry 1405 Lab Manual**

**AW Rasmussen** 

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