## **Pre-Lab Questions**

1.	Explain the difference between the water of hydration and a sample being wet.
2.	Do you include the water of hydration when you calculate the molar mass of a hydrate?
3.	Desiccants are very hygroscopic materials used to dry wet samples. When they are spent and can no longer absorb moisture they need to be replaced. Knowing that the anhydrous CoCl <sub>2</sub> is blue, and the hydrate, CoCl <sub>2</sub> •6H <sub>2</sub> O, is pink, why do you think the anhydrous CoCl <sub>2</sub> can be used as an "indicator" in desiccants to show when they needs to be replaced?
4.	Would you consider the losing of water of hydration a physical, a chemical process, or both? Explain.
5.	In the procedure, why do you think you may have to heat the crucible initially, maybe more than once?