**Homework #12 Chemistry 1114 section 2 (Fong) due Friday 20 Oct 2017 10 pts (in class) Show your work !!**

**Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1)Circle all the Bronsted Bases in the list below. (2 pts)**

**HF NaOH Na2CO3 HNO3**

**2) What kind of reaction is the one written below ?**

**PO43- + H-OH 🡪 HPO42- + OH‑ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3) Circle all the Arrhenius Bases in the list below.**

**HCl NaOH KF CO3 2- O2**

**4) What is the conjugate acid of NH3 ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5) What is the conjugate base of HCO3- ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6) Identify the acid(A), base(B) and conjugate base (CB) and**

**conjugate acid (CA) in the reactions below. (2 pts each)**

1. **HPO32- + HSO4- 🡪 PO33- + H2SO4**
2. **HCrO3- + HCO3- 🡪 H2CrO3 + CO32-**