**Mini-quiz #25 Chemistry 1114 28 Nov 2012**

Your name\_\_\_\_\_\_\_**answers**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_/7 pts

1. A Bronsted base is a(n) \_\_**proton acceptor**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Write the hydrolysis reaction for the carbonate anion, CO32- below:

**CO32- + H2O 🡪 HCO3- + OH-**

1. Identify the Acid (A), Base (B), Conjugate Base (CB) and conjugate acid (CA) below:

A B CB CA

HPO42- + SO42- PO43- + HSO41-

1. Which are examples of Arrhenius bases in the list below? (circle choices)

CO32- **NaOH KOH** HBr NaCl

1. Which are not Arrhenius bases, but are Bronsted bases in the list below

**CO32- PO43-**  KOH HBr NH4+

1. According to Arrhenius, acid + base = \_\_\_**salt\_\_\_\_\_ + \_\_\_water**\_\_\_\_\_\_\_
2. According to Bronsted, acid + base = \_\_\_\_**conjugate base\_ + \_conjugate acid**\_\_\_\_