**Mini-quiz #23 Chemistry 1114 Friday 22 November 2013**

**7 pts**

**Your name:\_\_\_\_\_\_answers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A**

1. Predict the products of the reaction below:

**HCO3- + OH-**

CO32- + H2O 🡪

1. What is the name of this reaction ? \_\_\_\_\_hydrolysis\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. A Bronsted base is a(n) \_\_\_\_proton\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_acceptor
3. In the Arrhenius model, ACID + BASE 🡪 \_salt\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_water\_\_\_\_\_\_\_
4. In the reaction below, which species is the conjugate acid ?

H2PO4- + PO33- 🡪 HPO42- + **HPO32-**

1. What species below can only be Bronsted bases ? (circle your choice(s))

**CO32-** NaOH HCl HNO3

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**Your name:\_\_\_\_\_\_answers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B**

1. Predict the products of the reaction below:

HPO42- + OH‑

PO43- + H2O 🡪

1. What is the name of this reaction ? \_\_\_\_\_\_**hydrolysis\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. An Arrhenius base is a(n) \_\_\_\_\_OH‑\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_donor
3. In the Bronsted model, ACID + BASE 🡪 \_conjugate base\_\_\_\_ & conjugate acid\_\_\_\_\_
4. In the reaction below, which species is the conjugate acid ?

PO4- + HPO33- 🡪 **HPO42-** + PO32-

1. What species below can only be Bronsted bases? (circle your choice(s))

HCl NaOH **PO43-** HNO3