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

**7 pts**

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

1. Predict the products of the reaction below:

CO32- + H2O 🡪

1. What is the name of this reaction ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. A Bronsted base is a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_acceptor
3. In the Arrhenius model, ACID + BASE 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_
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:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B**

1. Predict the products of the reaction below:

PO43- + H2O 🡪

1. What is the name of this reaction ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. An Arrhenius base is a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_donor
3. In the Bronsted model, ACID + BASE 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_
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