**Mini-quiz #27 Chemistry 1114 section 2 (Fong) 10 Nov 2014 4 pts A**

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

**Pinitial(N2) =6 atm Pinitial (H2) = 14 atm**

**V­initial (N2) = 3 Vinitial(H2) =1**

**1) Two gas volumes initially separated**

**by a closed stopcock have the**

**individual volumes and pressures shown.**

**What will be the final pressure in the two volumes once open the stopcock and let the H2 and N2 mix ?**

**Pfinal = \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. Circle all the features of the kinetic theory of gases in the list below**

**a) gas particles have no volume b) gas particles have no mass**

**c) gas particles undergo elastic collisions d) gas particles interact with each other**

**Mini-quiz #27 Chemistry 1114 section 2 (Fong) 10 Nov 2014 4 pts B**

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

**Pinitial(N2) =6 atm Pinitial (H2) = 6 atm**

**V­initial (N2) = 3 L Vinitial(H2) =1 L**

**1) Two gas volumes initially separated**

**by a closed stopcock have the**

**individual volumes and pressures shown.**

**What will be the final pressure in the two volumes once open the stopcock and let the H2 and N2 mix ?**

**Pfinal = \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. Circle all the features of the kinetic theory of gases in the list below**

**a) gas particles have no volume b) gas particles have no mass**

**c) gas particles undergo elastic collisions d) gas particles interact with each other**