**Mini-quiz #33 Chemistry 1114 section 2 (Fong) 24 Nov 2014 3 pts A**

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

**Using the Periodic Table projected at the front of the classroom, provide the abbreviated (and if necessary) d-s switched, filled/half-filled/empty rules to write the pigeon hole diagrams for the the elements (and charged species) below**

**a) Cu+1 [ Ar ] 3d10 4s0**

**b) Fe2+ [ Ar ] 3d54s1**

**c) Ni [ Ar ] 3d104s0**

**Mini-quiz #33 Chemistry 1114 section 2 (Fong) 24 Nov 2014 3 pts B**

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

**Using the Periodic Table projected at the front of the classroom, provide the abbreviated (and if necessary) d-s switched, filled/half-filled/empty rules to write the pigeon hole diagrams for the the elements (and charged species) below**

**a) Ni+3 [ Ar ] 3d54s2**

**b) Cu+1 [ Ar ] 3d104s0**

**b) Pd [ Kr ] 4d105s0**

**Mini-quiz #33 Chemistry 1114 section 2 (Fong) 24 Nov 2014 3 pts C**

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

**Using the Periodic Table projected at the front of the classroom, provide the abbreviated (and if necessary) d-s switched, filled/half-filled/empty rules to write the pigeon hole diagrams for the the elements (and charged species) below**

**a) Cr+1 [ Ar ] 3d54s0**

**b) Cu+1 [ Ar ] 3d104s0**

**c) Ni [ Ar ] 3d104s0**