**Chem 1013: mini-quiz # 27: d-s switching electronic configurations A**

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

**Write the correct, abbreviated d-s switched configuration for the transition metals and transition metal cations below, assuming they are dissolved in water:**

**Inert gas core outer d and s configuration**

**Mn2+ [ Ar ] 3d5 4s0**

**Ti [ Ar ] 3d2 4s2**

**Cu2+ [ Ar ] 3d9 4s0**

**Mo [ Kr ] 4d5 5s1**

**Chem 1013: mini-quiz # 27: d-s switching electronic configurations B**

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

**Write the correct, abbreviated d-s switched configuration for the transition metals and transition metal cations below, assuming they are dissolved in water:**

**Inert gas core outer d and s configuration**

**Fe2+ [ Ar ] 3d5 4s1**

**Cr [ Ar ] 3d5 4s1**

**Cu2+ [ Ar ] 3d9 4s0**

**Cd2+ [ Kr ] 4d10 5s0**