امتحان يومي كيمياء الحديد اعادة

**Q1/ Choose the correct answer:**

1. **[ Fe(H2O)6]3+ + K3[Fe (CN)6] ? :**
   1. **Fe3+[Fe 3+ (CN)6] b) Fe3+[Fe 2+ (CN)6] c) no reaction d) Fe2+[Fe 3+ (CN)6]**
2. **Ferric complex solution [Fe (H2O)6]3+ is prepared from salt :** 
   1. **Fe(NO3)3.6H2O b) FeCl3.6H2O c) FeSO4.6H2O c) Fe(CO3)3.6H2O**
3. **The electronic configuration for the chromium metal in the Cr2O3 is:** 
   1. **Fe +2 [Ar] 18 3d6 4s0 b) Fe 26 [Ar] 18 3d6 4s2 c)Fe+6 [Ar] 18 3d2 4s0 d) Fe+3 [Ar] 18 3d3 4s0**
4. **The detecting reagent between Fe+2 and Fe+3 ions :** 
   * 1. **NH4SCN b) Na2CO3 c) NaOH d) H2O2**

5- **[Fe (H2O)6]2+ + NH4SCN  Color is**

**a)red b) green c) pink d) reddish pink**

**Q2( Answer the following questions**

1. **Iron complex with (EDTA) has many properties, including: 1- hybridization 2- magnetism 3- orbital type 4- complex drawing 5- principle of interaction to form a complex.**

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1. **Prepare all of the following 1- [Fe(H2O)6]+2 2-[Fe(H2O)6]+3 3- [Fe(NH3)6]+2**

**Q1/ Complete the following chemical equations :**

1. **[ Fe(H2O)6]3+ + K3[Fe (CN)6]**
2. **[ Fe(H2O)6]2+ + H2O2**
3. **[Fe (H2O)6]3+ + NH4SCN**
4. **[ Fe(H2O)6]3+ + KMnO4**