**Umumta’lim maktabining 2024-2025-o‘quv yilining kimyo fanini o‘zlashtirish darajasini aniqlash uchun topshiriqlar**

**9-\_\_\_sinf o‘quvchisi \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**F.I.SH.**

 **O‘quvchi to‘plagan umumiy ball:\_\_\_\_\_ (maksimal ball: 30)**

**IV Chorak 7-BSB**

#### Xromning elektron konfiguratsiyasini yozing.

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1. Quyidagi o‘zgarishlarni amalga oshirishga imkon beradigan reaksiyalarning tenglamalarini yozing.

Fe → FeSO4 → Fe(OH)2 → Fe(NO3)2

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#### Marganesning oksidlanish darajasi o‘zgarishini aniqlang

MnSO*4* – Mn(OH)*2* – MnCl*2*

#### 16,25 g temirning xlor bilan o‘zaro ta’siri natijasida temir (III) xlorid olindi. Reaksiya natijasida hosil bo‘lgan mahsulotning massasini aniqlang.

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| **Berilgan:** | **Yechish:**  |

####  Quyidagi ionlarga mos keladigan javoblarni yozing.

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| **Metall ioni** | **Bir nechta tomchi NaOH qo‘shilishidan hosil bo‘ladigan rang o‘zgarishlari** | **Reaksiya tenglamasi** |
| **Fe2+** |  |  |
| **Fe3+** |  |  |

**Baholash mezoni**

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| **Ball** | **To‘g‘ri javoblar** | **Baholash mezoni** |
| **2** | 1s2 2s2 2p6 3s2 3p6 3d5 4s1 | To‘g‘ri javob keltirilgan bo‘lsa; **2 ball**  |
| **9** | Fe → FeSO4 → Fe(OH)2 → Fe(NO3)2Fe+ H2SO4 → FeSO4+H2FeSO4+NaOH→ Fe(OH)2+ Na2SO4Fe(OH)2+2HNO3= Fe (NO3)2+ 2H2O | Har bir reaksiya tenglamasi to‘g‘ri ifodalansa; 3 ball dan**Jami: 9 ball** |
| **3** | +2; +2; +2 | Har bir keltirilgan to‘g‘ri javob uchun 1 balldan; **Jami: 3 ball**  |
| **4** | Berilgan:m=16,25gm(FeCl3)=?Reaksiya tenglamasi:2Fe+3Cl2=2FeCl3Yechish16,25---------x112---------325X=47Javob: 47 gramm FeCl3 | a) agar masala to‘liq va to‘g‘ri bajarilgan bo‘lsa;   **4** **ball** b) agar masala to‘liq yechilsa lekin matematik xatolar bo‘lsa:  3 ball c) masalalar yechish yo‘li to‘g‘ri, lekin hisobda xatolar bo‘lib, birliklarga e’tibor berilmasa:  2 balld) agar masala umuman noto‘g‘ri ishlangan, bo‘lsa;  1 balle) agar masala bajarmagan bo‘lsa;  0 ball |
| **12** |

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| Metall ioni | Bir nechta tomchi NaOH qo‘shilishidan hosil bo‘ladigan o‘zgarishlar | Reaksiya tenglamasi |
| Fe2+ | Yashil cho‘kma | FeSO4+2NaOH=Na2SO4+Fe(OH)2 |
| Fe3+ | Qo‘ng‘ir cho‘kma | FeCl3+3NaOH=3NaCl+ Fe(OH)3 |

 | Har bir qator to‘g‘ri ifodalansa; 3 ball dan**Jami: 12 ball** |
| **Jami** |  | **30 ball** |