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

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

**F.I.SH.**

 **O‘quvchi to‘plagan umumiy ball:\_\_\_\_\_ (maksimal ball: 20)**

**IV Chorak 7-BSB**

1. Konsentrlangan nitrat kislota quyidagi moddalarning qaysi biri bilan reaksiyaga kirishganda, oksidlovchi xossa namoyon qilishini aniqlang.
2. vodorod yodid 2) kalsiy oksid 3) mis 4) alyuminiy 5) uglerod (IV) oksid
3. metafosfat kislota

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2. Quyidagi reaksiya tenglаmаsini yarim reaksiya usuli bilan tenglashtiring va kоeffisientlаrni tаnlаng, o‘ng vа chаp tоmоnlаrdаgi kоeffisientlаr yig‘indilаri nisbаtlаrini аniqlаng.

$K\_{2}Cr\_{2}O\_{7}+SO\_{2}+H\_{2}SO\_{4}=Cr\_{2}(SO\_{4})\_{3}+K\_{2}SO\_{4}+...$

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#### 3.Fikrlarning qaysi biri to‘g‘ri yoki noto‘g‘ri ekanligini aniqlang.

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| --- | --- |
| Fikrlar | To‘g‘ri/ Noto‘g‘ri |
| Kaliy dixromat tarkibidagi xrom [3+] oksidlanish darajasini ko‘rsatadi.  |  |
| Oksidlanish darajasi [4+] bo‘lgan oltingugurt ham oksidlovchi, ham qaytaruvchi xossaga ega bo‘lishi mumkin. |  |
| Guruhdagi metallmaslarning oksidlanish xossalari pastdan yuqoriga oshib boradi |  |

#### Reaksiyani tenglashtiring va kоeffisiyentlаr yig‘indisini aniqlang.

KMnO*4 +*KNO*2 +*H*2*O*→*KNO*3 +*MnO*2 +*KOH

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1. Xrom (III) sulfat kaliy gidroksid ishtirokida vodorod peroksid bilan ta’sirlashganda 19,4 g kaliy xromat hosil bo‘ldi. Reaksiyada qatnashgan oksidlovchining massasini (g) hisoblang.

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