

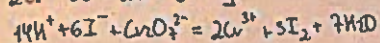
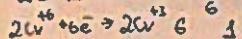
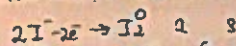
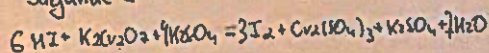


Вариант № 3

Оценка выполнения олимпиадной работы
(заполняется проверяющим)

№ задания	1	2	3	4	5	6	7	8	9	10	Σ
Полученный балл	5	10	12	12	4	2					45
I проверка				Σ баллов правильно							
Подпись проверяющего				Σ баллов правильно							
II проверка				Σ баллов правильно							
Подпись проверяющего				Σ баллов правильно							

Задание 1



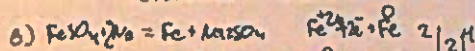
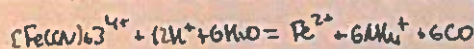
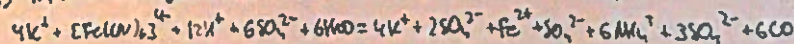
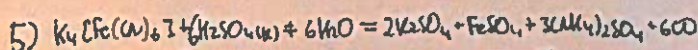
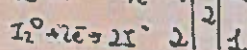
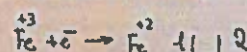
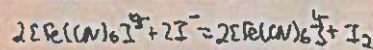
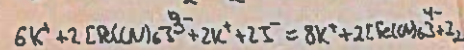
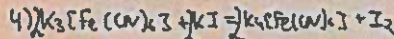
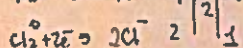
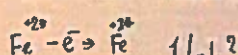
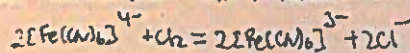
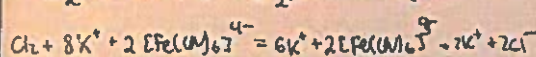
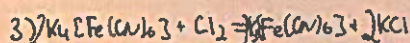
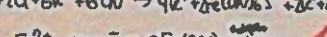
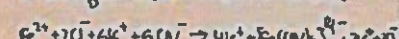
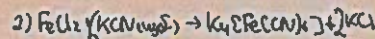
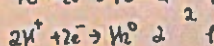
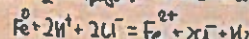
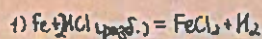
Задание 2

A - Fe

B - $\text{K}_4\text{Fe}(\text{CN})_6$

C - FeSO_4

D - $\text{K}_4\text{Fe}(\text{CN})_6$

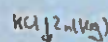
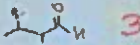
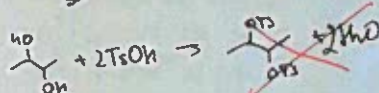
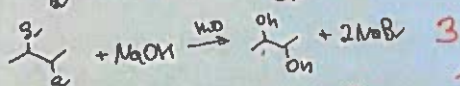
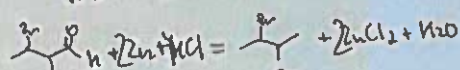
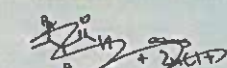
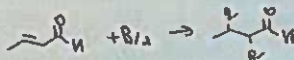
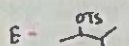
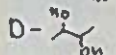
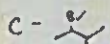
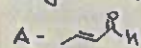




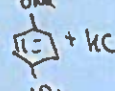
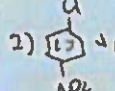
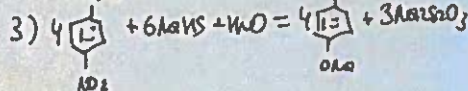
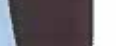
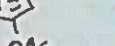
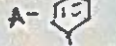
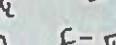
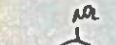
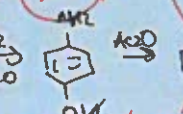
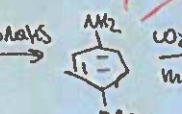
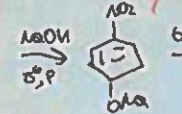
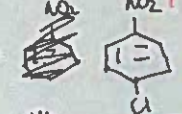
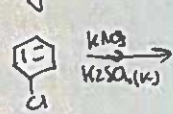
Вариант № 3

Задача 3

Уксусный альдегид - CC=O



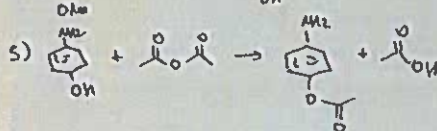
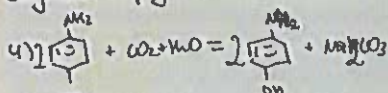
Задача 4





Вариант № 3

Задачи 4 (продолжение)



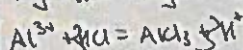
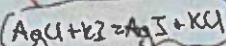
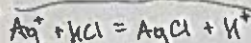
Задачи 6

В ра-ре содержат: Al^{3+} и K^+

+1

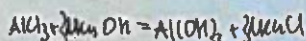
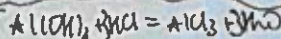
- определим Ag^+

2

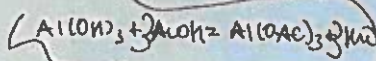


- определим $AlCl_3$ от ра-ра

первая проба



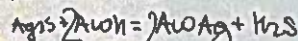
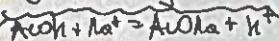
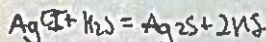
- растворим и осадим Al^{3+} в новом ра-ре



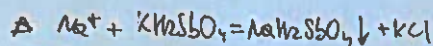
Аммоний

индикатор для Al^{3+}

растворим осадок

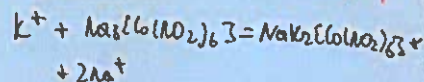


реш. осадок и перевали Na^+ в кр-л

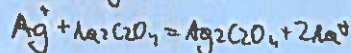


определим Na^+

+1



определим K^+

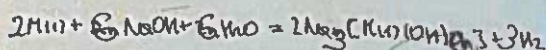
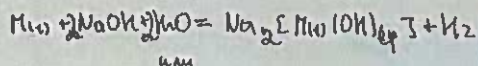
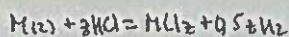
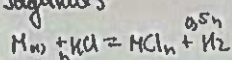


определим Ag^+



Вариант № 3

Задача 5



$$n(M_{(1)}) = 0,1 \text{ моль}$$

Во 2-ой чужая в-ва. (только не использовать в первой т.к. во 2-ой чужая р-ция. 2 металла, а во второй 1 металл)

$$0,1 = 0,5n_x + 0,5z_x$$

$$2,04 = 0,5n_x y + 0,5z_x A$$

$$34 = 0,0667xy + 0,5z_x A$$

$$0,0667x + 0,04y = 3,4$$

$$0,0667x + 0,04y = 2,04$$

$$x = 34$$

$$y = 28$$

$$w(M_1) = 66,67\%$$

$$w(M_2) = 33,33\%$$

$$\Sigma = 4$$

$$+1$$

$$A - M_{(2)}$$

$$y - M_{(1)}$$

$$x - n(M_{(1)}) \leftarrow n(M_{(2)})$$

$$+1$$

$$+1$$

$$+1$$

Внимательно $n(M_{(1)}) = 0,0667 \text{ моль}$

$n(M_{(2)}) = 0,5 \text{ моль}$ во второй р-ции

В первой р-ции $n(M_{(1)}) = 0,0667 \text{ моль}$

$$n(M_2) = 0,04$$

