

Общий балл	Дата	Ф.И.О. Жюри	Подпись
47,75	14.03.25	Фарустова	<i>[Signature]</i>
Шифр			919425

Задача 10-1

1. $W_0 = \frac{1}{4,44} = \frac{16}{16+M(x)} \Rightarrow M(x) = 2M(C)$

1	2	3	4	5
12,75	15,5	14	5,5	←

Оксид A - U_2O

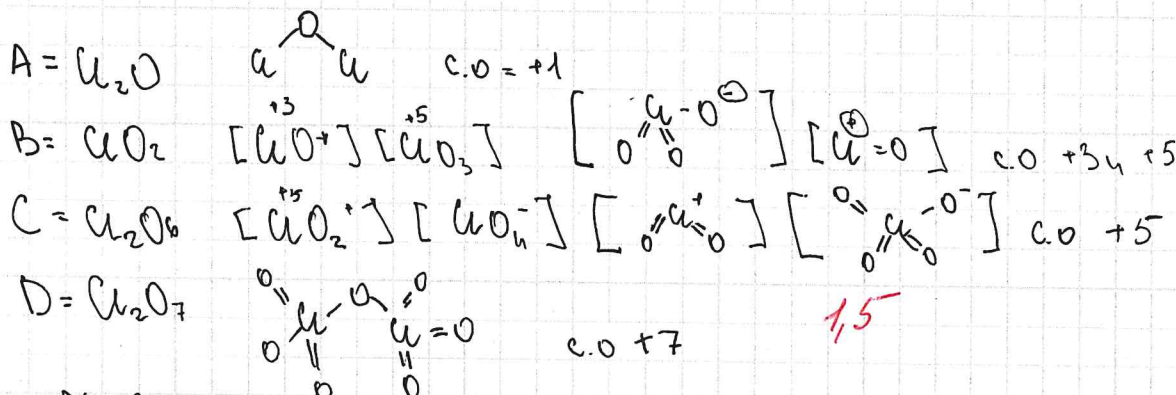
B: $\frac{1}{4,44+4} = \frac{16n}{16n+35,5} \Rightarrow n=2 \Rightarrow B-UO_2$

C: $\frac{6}{4,44+6} = \frac{16n}{16n+35,5} \Rightarrow n=3 \Rightarrow C-UO_3$, но учитывая с.о. +6 у хлора не существует

C - U_2O_6

D: $\frac{7}{4,44+7} = \frac{16n}{16n+35,5} \Rightarrow n=3,5 \Rightarrow D-U_2O_7$

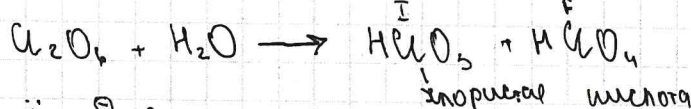
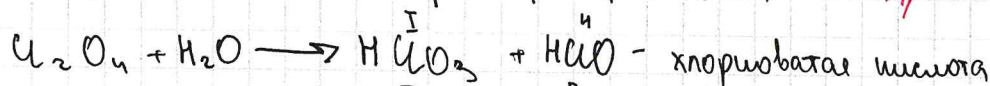
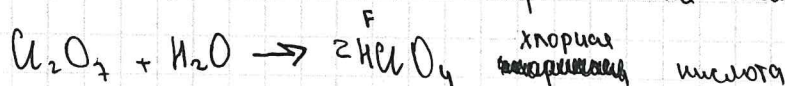
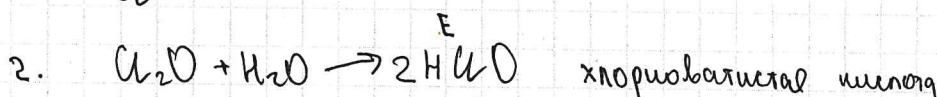
4



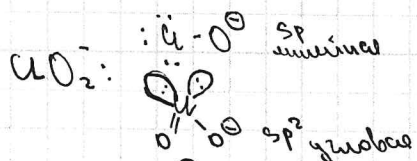
1

1,5

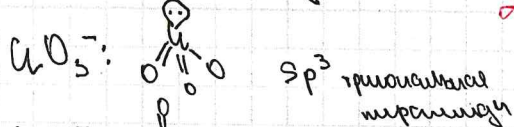
X-U



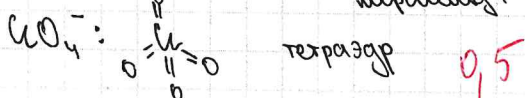
1,5 + 0,5



0,5



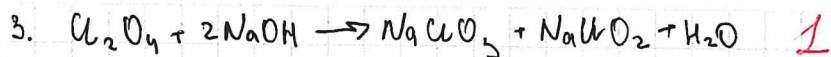
2 + 0,5



0,25 + 0,5

0,5

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$$n(\text{Cl}_2\text{O}_4) = \frac{4,48}{22,4} = 0,2 \text{ моль} - \text{исх. в-во}$$

$$n(\text{NaOH}) = \frac{30 \cdot 1,1309 \cdot 0,2}{40} = 0,305 \text{ моль} - \text{израсх.}$$

$$m_{\text{р-ра}} = 0,2 \cdot 135 + 30 \cdot 1,1309 = 128,782$$

$$m(\text{NaClO}_3) = \frac{0,305}{2} \cdot 106,5 = 16,242$$

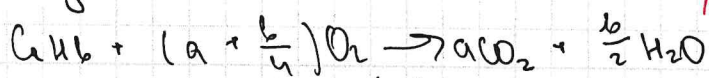
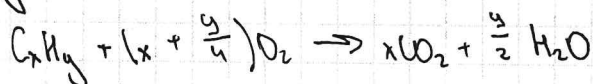
$$m(\text{NaClO}_2) = \frac{0,305}{2} \cdot 90,5 = 13,82$$

$$\omega(\text{NaClO}_3) = \frac{16,24}{128,78} = 0,126 = 12,6\%$$

$$\omega(\text{NaClO}_2) = \frac{13,8}{128,78} = 0,107 = 10,7\%$$

~~Задача 10-2~~

Задача 10-4



$$3,14 = \frac{44x \cdot n + 44a \cdot (1-n)}{n \cdot (12x + y) + (1-n)(12a + b)}$$

0,5

$$\Rightarrow x=a$$

тогда C_xH_2 - алкины $\Rightarrow \text{C}_2\text{H}_2$ и C_2H_6

при $x=a=2$

$$y=2$$

$$b=b$$

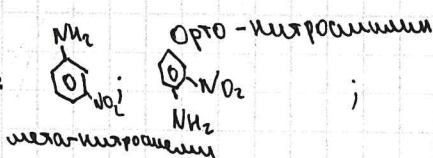
$$n=0,404$$

$\Rightarrow \text{C}_2\text{H}_2$ (не $\equiv \text{CH}$)
 C_2H_6 ($\text{CH}_3\text{C}-\text{CH}_3$)

1

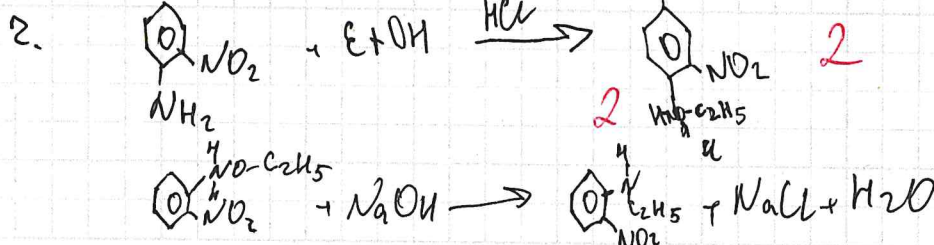
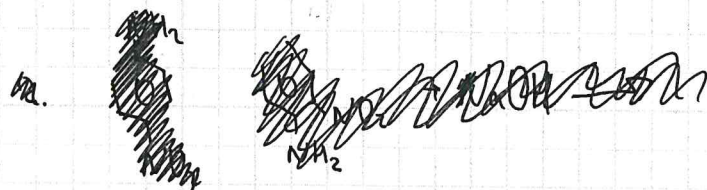
Задача 10-3.

1. $\text{C}_6\text{H}_6\text{N}_2\text{O}_2$ - нитроамин:



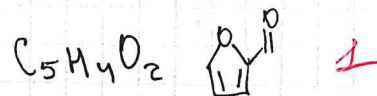
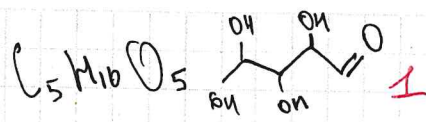
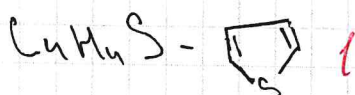
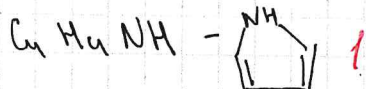
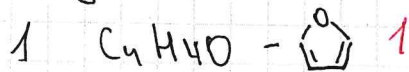
пара-нитроамин

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Задача 10-2



2. реакции:

