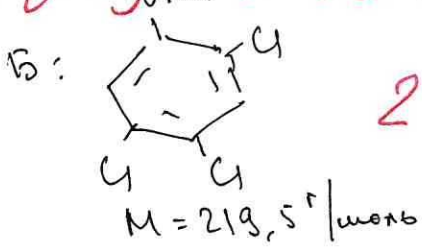
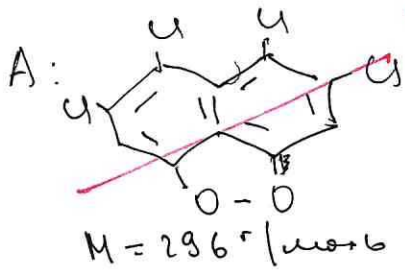


1	2	3	4	5	6	7	8	9	10
2	4	0	5	0	3	8	8	0	8

N1



2 ≤ 38

$x - \text{моль B}; 5x - \text{моль A}$

$219,5x + 296 \cdot 5x = 50$

$1699,5x = 50$

$x = 0,03 \text{ моль}$

$x = 0,15 \text{ моль}$

$\nu(\text{Cl})_{\text{общ}} = 0,18 \text{ моль}$

$m(\text{Cl}) = 0,18 \cdot 35,5 = 6,39 \text{ г}$

Ответ: 6,39 г

N2

$C = \frac{m}{V}$

$0,25 = \frac{5}{V}$

$V = 20 \text{ мл в.в.с}$

$V_{\text{р-ра}} = \frac{20}{0,05} = 400 \text{ мл}$

3

400 мл = 560 ч, т.к. попу выводится 200 ч

x - часть (%), которая ~~выводится~~ в организме

$400 \text{ мл} - 560 \text{ ч}$

$x \text{ мл} - 350 \text{ ч}$

$x = 250 \text{ мл}$

$400 - 250 = 150 \text{ мл} - \text{остаток}$

$\frac{150}{400} \cdot 100\% = 37,5\%$

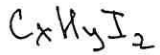
4

1 C<sub>t</sub> - ?

Ответ: 400 мл; 37,5%.



14



$w(I) = 96,7\%$

$w(H) = 0,25\%$

$w(C) = 3,05\%$

$(100\% - 96,7\% - 0,25\%)$

$\nu(C) : \nu(H) : \nu(I) = 0,25 : 0,25 : 0,76 = 1 : 1 : 3$

$\Rightarrow C_1H_1I_3 (M = 394 \text{ г/моль})$  **2**

Пусть в-ва 100 г:

$m(I) = 96,7 \text{ г}; \nu(I) = 0,76 \text{ моль}$

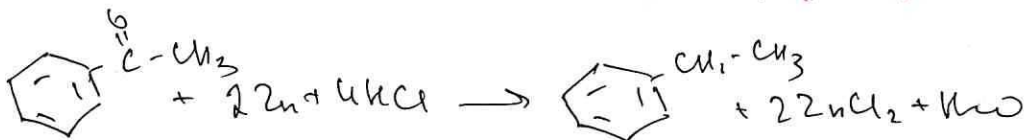
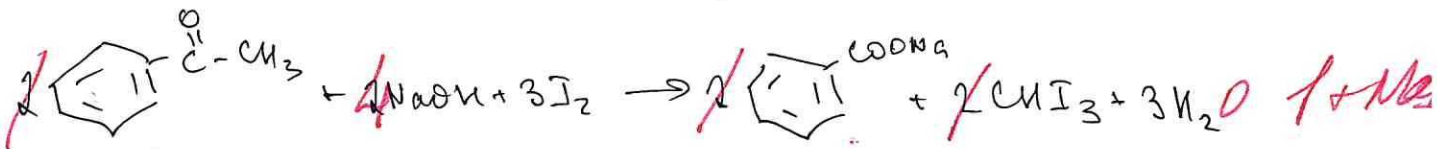
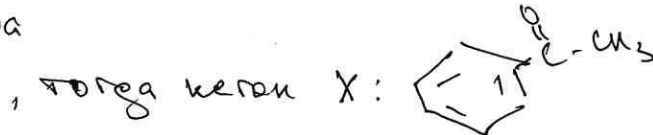
$m(H) = 0,25 \text{ г}; \nu(H) = 0,25 \text{ моль}$

$m(C) = 3,05 \text{ г}; \nu(C) = 0,25 \text{ моль}$

$\nu(C_1H_1I_3) = \frac{17,73}{394} = 0,045 \text{ моль}$

Пусть  $\nu$  соли :  $\nu(C_1H_1I_3) = 1 : 1$ , Тогда  $\nu$  соли = 0,045 моль

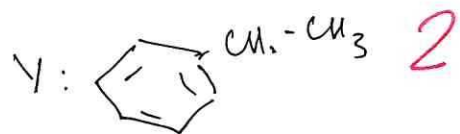
$M \text{ соли} = \frac{6,48}{0,045} = 144 \text{ г/моль}$



$\nu(C_9H_{10}) = \frac{4,14}{106} = 0,04 \text{ моль}$

$y = \frac{0,04}{0,045} \cdot 100\% = 88,9\%$

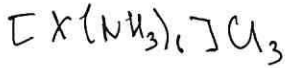
$m(I_2) = 254 \cdot \frac{0,045}{2} \cdot 3 = 17,145 \text{ г}$



Ответ: 88,9%; 17,145 г



Д 6



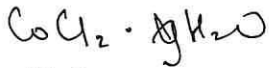
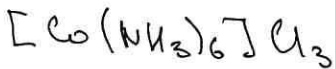
$$0,2206 = \frac{x}{x + 17 \cdot 6 + 35,5}$$

$$x = 0,2206x + 208,5 \cdot 0,2206$$

$$0,7794x = 45,9951$$

$$x = 59 \text{ г/моль} \Rightarrow Co$$

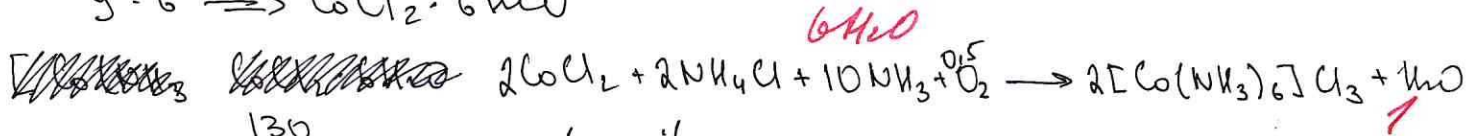
3



$$\frac{130}{18 \cdot 6} = 1,203$$

$$130 = 21,654y$$

$$y = 6 \Rightarrow CoCl_2 \cdot 6H_2O$$



$$\omega(CoCl_2) = \frac{130}{130 + 6 \cdot 18} = 0,55 \cdot 100\% = 55\%$$

$$m(CoCl_2) = 14,3 \cdot 0,55 = 7,865 \text{ г}$$

$$V(CoCl_2) = \frac{7,865}{130} = 0,0605 \text{ моль}$$

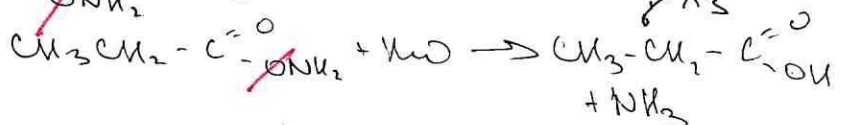
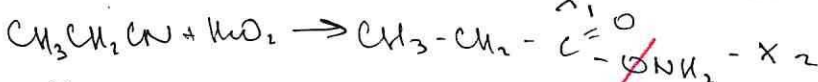
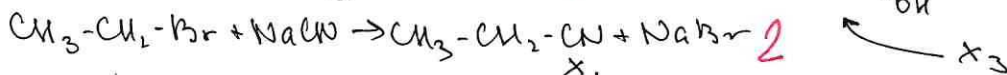
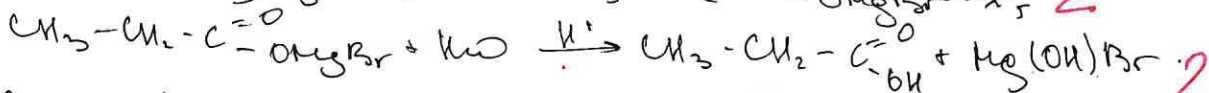
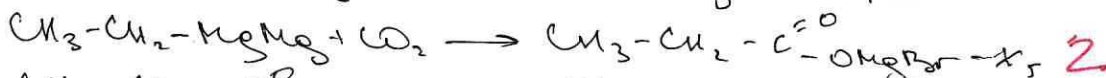
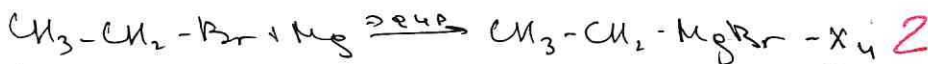
$$m(O_2) = 0,0605 \cdot 267,5 = 16,18375 \text{ г}$$

$$V(O_2) = \frac{0,0605}{2} \cdot 22,4 = 0,6776 \text{ л}$$

Объем: 16,18375 г; 0,6776 л

2

Д 7



8



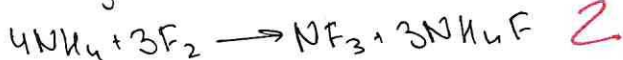
У8

$$\rho = \frac{m}{V} = \frac{M}{22,4}$$

$$M = 6,5 \cdot 4 = 26 \text{ г/моль} \quad 2$$

$$1) 3,168 = \frac{M}{22,4}$$

$$M_{\text{гаса}} = 71 \text{ г/моль} \Rightarrow \text{NF}_3$$



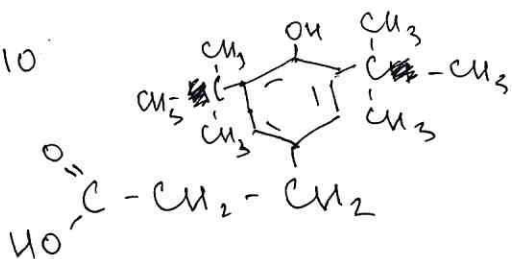
8

$$2) 4,643 = \frac{M}{22,4}$$

$$M = 104 \text{ г/моль} \Rightarrow \text{N}_2\text{F}_4$$



У10



- фенолзольная кислота

2

9

