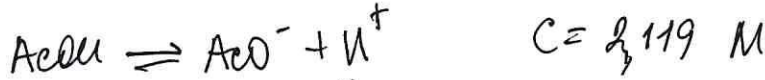




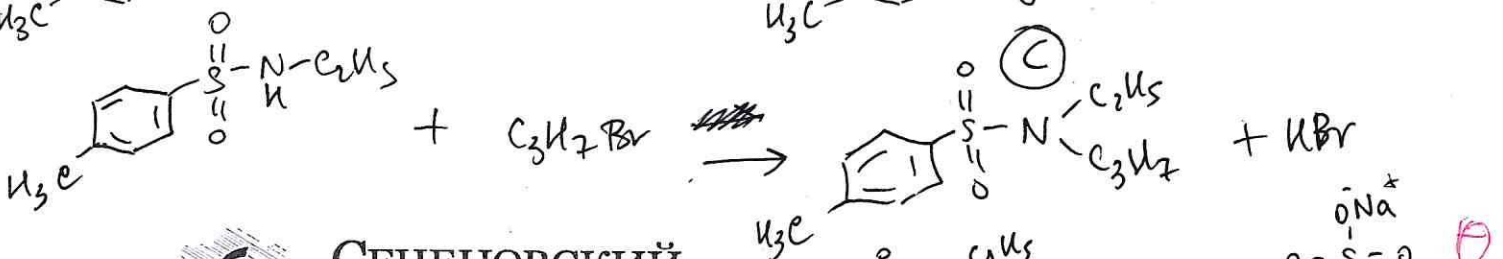
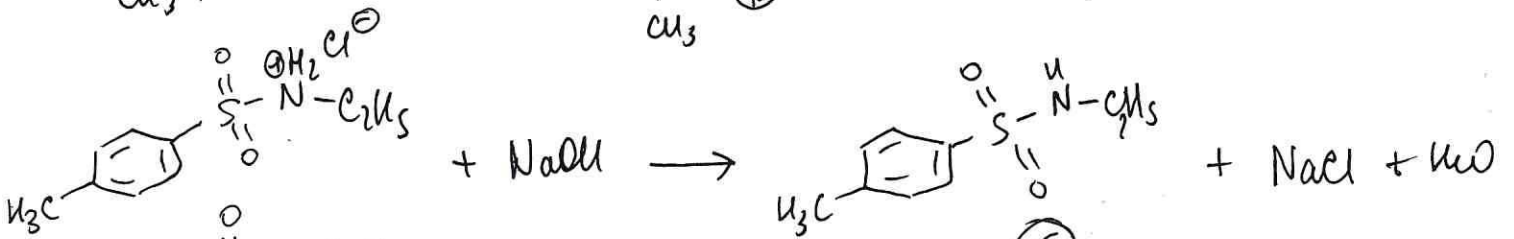
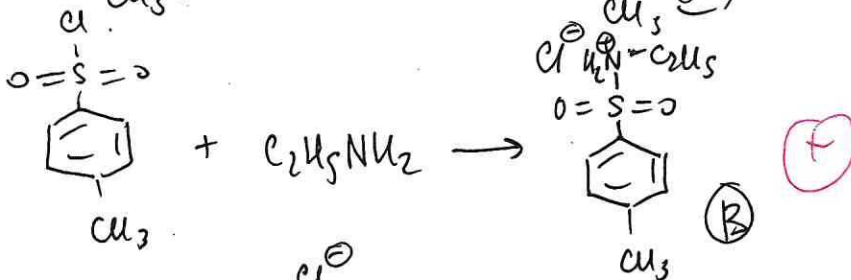
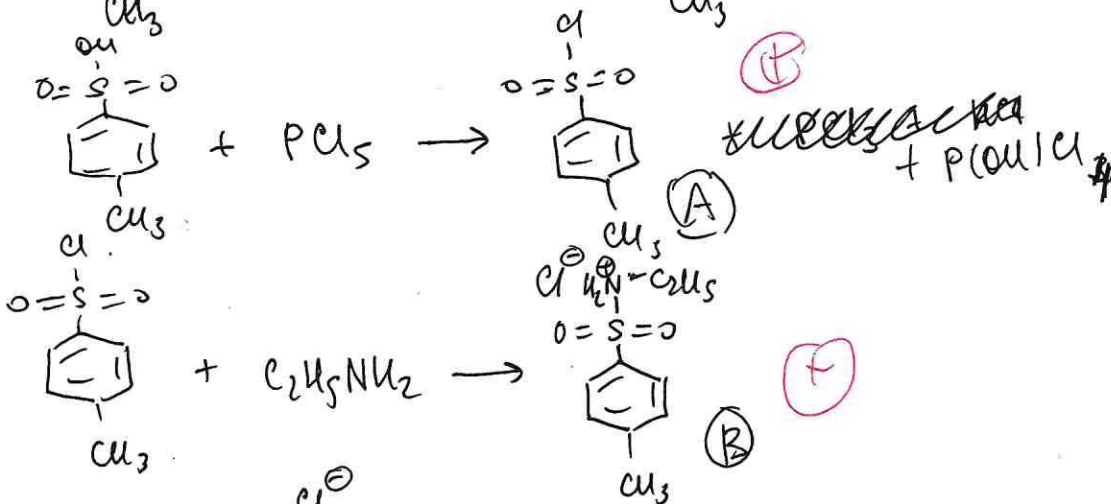
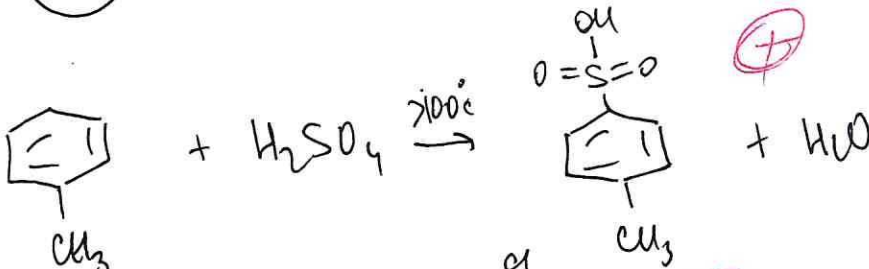
Продолжение 8.2



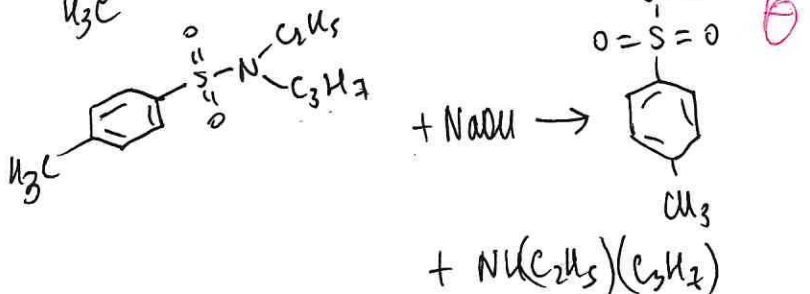
$$K_a = \frac{[H^+][AcO^-]}{[AcOH]} \rightleftharpoons \frac{x^2}{c-x} = 10^{-4,76} \Rightarrow x = 6,0596 \cdot 10^{-3} \text{ M}$$

$$pH = -\log[H^+] = -\log(6,0596 \cdot 10^{-3}) = 2,22 \quad (+)$$

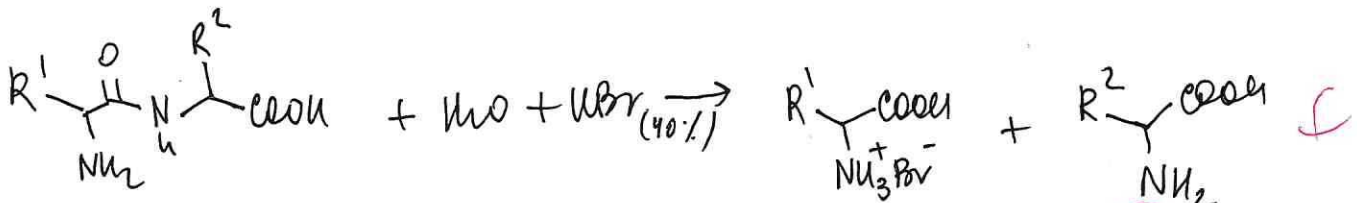
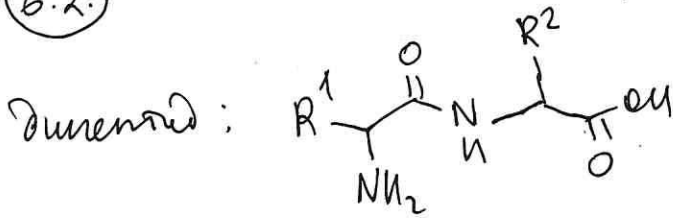
8.2



СЕЧЕНОВСКИЙ  
УНИВЕРСИТЕТ

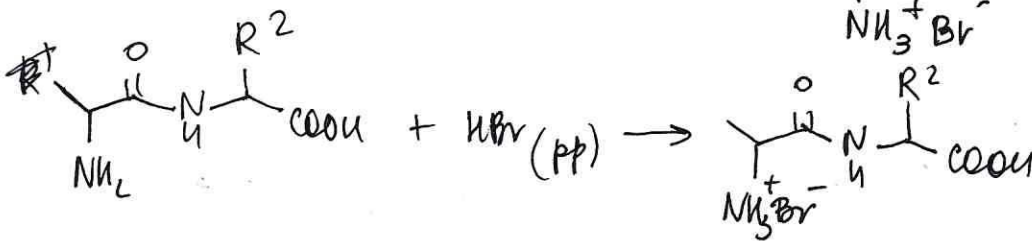
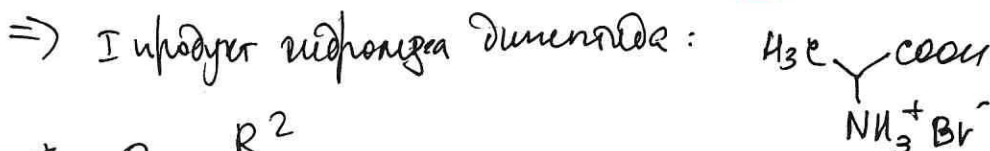


6.2.



$$\omega(\text{Br})_1 = 47,06\% \Rightarrow \text{Mw}(\text{I}) = \frac{80}{0,4706} = 170 \text{ г/моль} \Rightarrow$$

$$\Rightarrow \text{Mw}(\text{R}^2) = 170 - 80 - 14 - 12 \cdot 2 - 32 - 5 = 15 \text{ г/моль} (\Rightarrow \text{R}^1: \text{CH}_3)$$

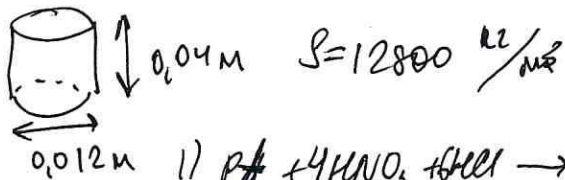


$$\omega(\text{Br})_2 = 22,923\% \Rightarrow \text{Mw}(\text{II}) = \frac{80}{22,923 \cdot 10^{-2}} = 349 \text{ г/моль}$$

$$\Rightarrow \text{Mw}(\text{R}^2) = 349 - 80 - 14 \cdot 2 - 12 \cdot 5 - 48 - 10 = 123 \text{ г/моль}$$

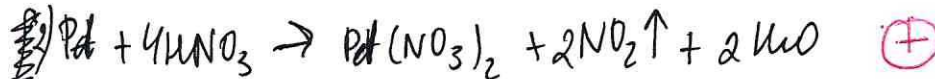


5.2. [Pd; Pt; Au]

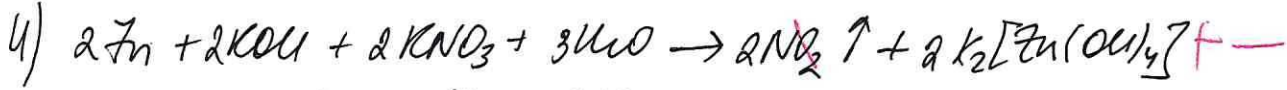


$$V = h \cdot \pi R^2 = 0,04 \cdot 3,14 \cdot 0,006^2 = 4,522 \cdot 10^{-6} \text{ м}^3$$

$$m = V \cdot \rho = 4,522 \cdot 10^{-6} \cdot 12800 = 57,88 \cdot 10^{-2} \text{ кг} = 57,88 \text{ г}$$



4



$$n(\text{NO}_2) = n(\text{Zn}) = \frac{m}{M_r} = \frac{208}{65} = 3,2 \text{ моль} = n(\text{NO}_2)_{\text{HNO}_3} = 8,34 \cdot n(\text{NO}_2)_{\text{уравн. 4}}$$

$$n(\text{NO}_2)_{\text{Au}} = \frac{3,2}{8,34} = 0,384 \text{ моль}$$

~~0,384 \cdot 106 = 40,8 \text{ г}~~

$n(\text{NO}_2)_{\text{HNO}_3} = 3,2 \text{ моль} \rightarrow \text{Pd}$  ; ~~используем уравнение 2~~ ;  ~~$n(\text{Pd}) = \frac{n(\text{NO}_2)}{2} = \frac{3,2}{2} = 1,6 \text{ моль}$~~

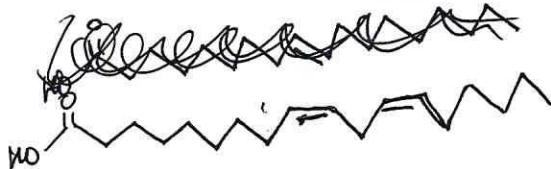
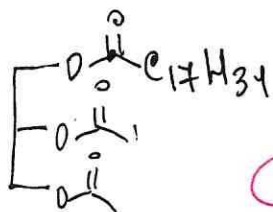
~~$\Rightarrow n(\text{Pd}) = \frac{n(\text{NO}_2)_{\text{HNO}_3}}{2} = 1,6 \text{ моль} \Rightarrow m(\text{Pd}) = 1,6 \cdot 106 = 169,6 \text{ г}$~~



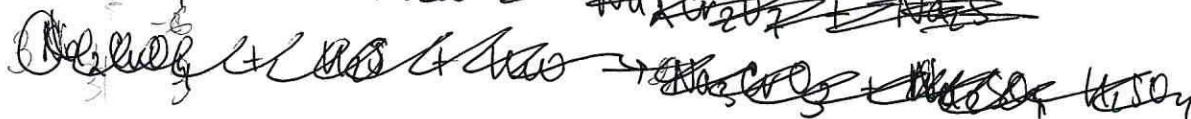
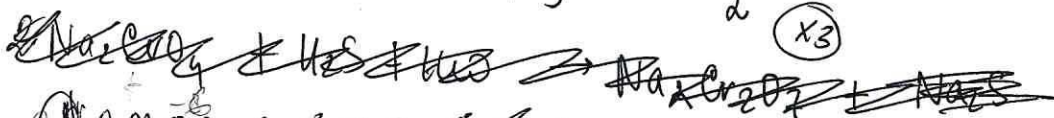
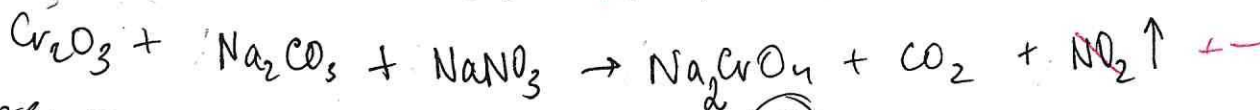
□ □ □ □ □



$\Delta p \leq 2,5 \text{ мм/кг}$

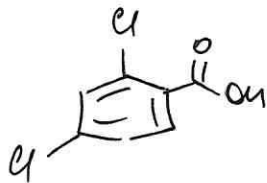


микролеви  
K-TC

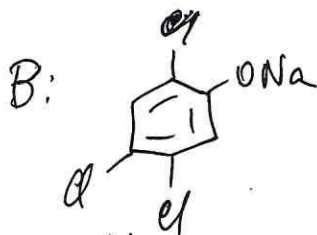
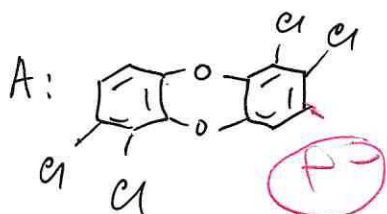
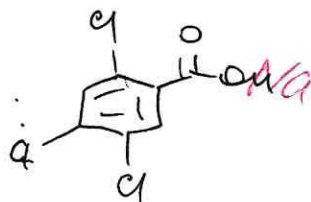


1.2

(2,4-7):

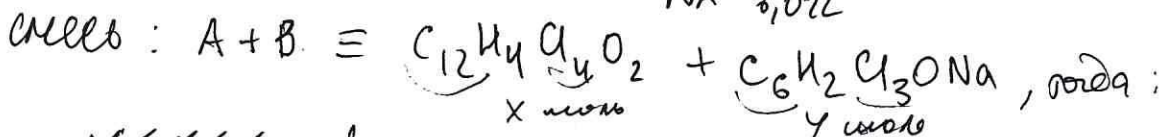


(2,4,5-7)



$$N(\text{C}) = 1,805 \cdot 10^{23} \Rightarrow n(\text{C}) = \frac{N}{N_A} = \frac{1,805 \cdot 10^{23}}{6,022 \cdot 10^{23}} = 0,3 \text{ моль} +$$

$$N(\text{A}) = 0,6622 \cdot 10^{23} \Rightarrow n(\text{A}) = \frac{N}{N_A} = \frac{0,6622}{6,022} = 0,1 \text{ моль} +$$



$$\begin{cases} 12x + 6y = 0,3 \\ 4x + 3y = 0,1 \end{cases} \Rightarrow \begin{matrix} x = 0,025 \\ y = 0,025 \end{matrix}$$

4

4.2

