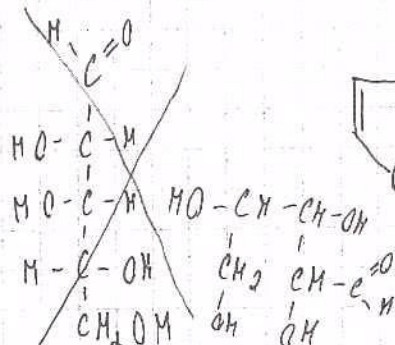


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44,5	13.03.25	Фигурова	Фигурова

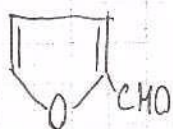
Шифр 025-2-X-65

№ 10 - 2

1) $C_5H_{10}O_5$

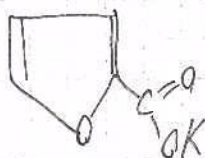


$C_5H_4O_2$



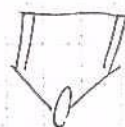
1

$C_5H_3O_3K$



1

C_4H_4O



1

C_4H_4S



1

C_6H_8NH



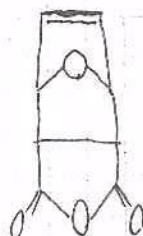
1

A



1

B



2

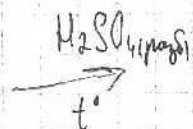
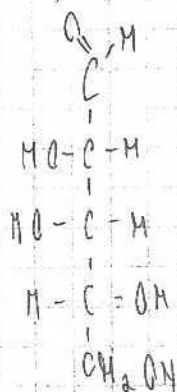
C



1

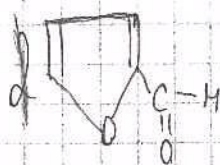
1	2	3	4	5
6,5	20	17	-	1

2) $(C_5H_{10}O_4)_n + nH_2O \xrightarrow{H^+} nC_5H_{10}O_5$



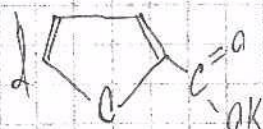
$+ 3H_2O$

1

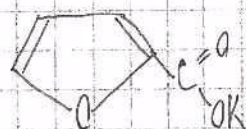


$+ 2KMnO_4 + 2KOH$

$\rightarrow 2C_5H_3O_3K + 10MnO_2 + 2H_2O + K_2MnO_4$



1



$+ KOH$

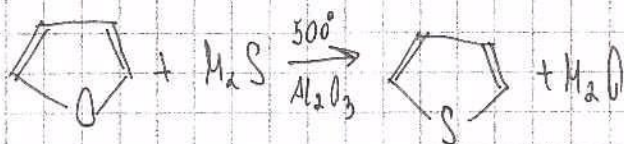


$+ K_2CO_3$

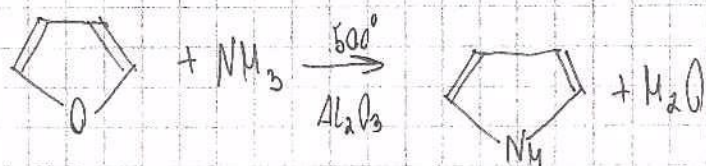
1

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44,5	13.03.25	Фадеева	И.И.И.

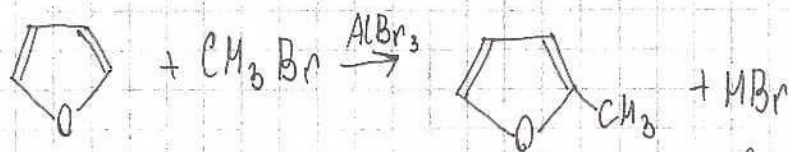
Шифр 025-2-X-65



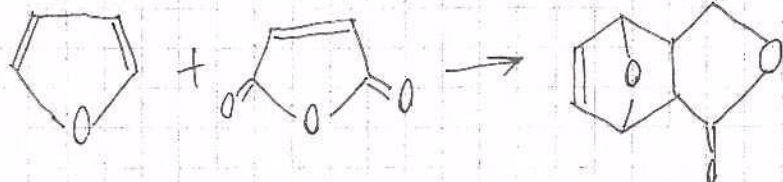
1



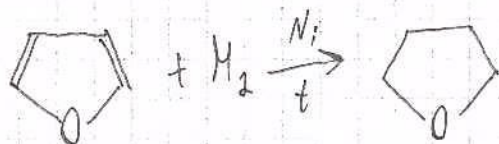
1



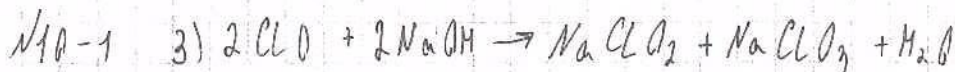
1



2



1



$$m_{\text{р-р}}(\text{NaOH}) = \rho \cdot V = 1,1309 \cdot 90 = 101,78 \text{ г}$$

$$n(\text{ClO}_2) = \frac{4,48}{22,4} = 0,2 \text{ моль} - \text{недостаток}$$

2

$$m(\text{NaOH}) = 101,78 \cdot 0,12 = 12,21 \text{ г}$$

$$n(\text{NaClO}_2) = n(\text{NaClO}_3) = 0,2 \text{ моль}$$

$$m(\text{NaClO}_2) = 0,2 \cdot (23 + 35,5 + 32) = 18,1 \text{ г}$$

$$m(\text{NaClO}_3) = 0,2 \cdot (23 + 35,5 + 48) = 21,3 \text{ г}$$

$$m_{\text{р-р}} = m(\text{ClO}_2) + m_{\text{р-р}}(\text{NaOH}) = 0,2 \cdot (35,5 + 32) + 101,78 = 115,28 \text{ г}$$

1

$$w(\text{NaClO}_2) = \frac{18,1}{115,28} = 0,1570 \text{ или } 15,7\%$$

$$w(\text{NaClO}_3) = \frac{21,3}{115,28} = 0,1848 \text{ или } 18,48\%$$

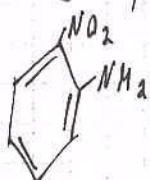
$$w(\text{NaClO}_2) = \frac{18,1}{115,28} = 0,1570 \text{ или } 15,7\%$$

Ответ: $w(\text{NaClO}_2) = 15,7\%$; $w(\text{NaClO}_3) = 18,48\%$

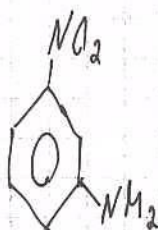
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44,5	13.03.25	Фадеев С.В.	<i>[Signature]</i>

Шифр 025-2-X-65

№ 10-3 1) $C_6H_5NO_2$



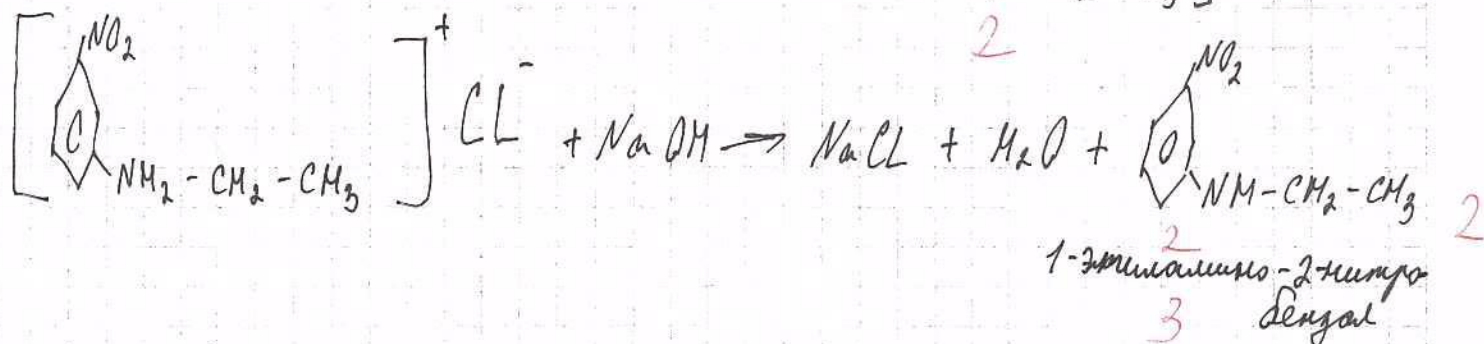
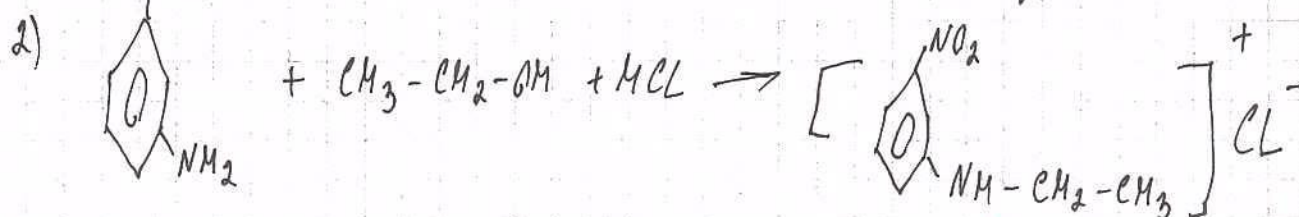
2-нитроанилин



3-нитроанилин



4-нитроанилин



№ 10-1

X - Cl

A - Cl_2O

B - ClO_2

D - Cl_2O_7

E - $HOCl$

F - $HOClO$

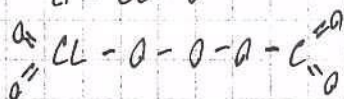
H - $HOClO_2$

Y - $HOClO_3$

C - ClO_3

$Cl-O-Cl$

$O=Cl=O$

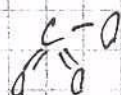


хлороводистая к-та

хлорная к-та

хлористая к-та

хлорноватая к-та



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№ 10-5

