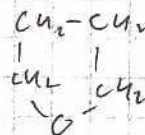
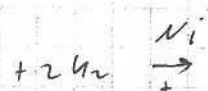
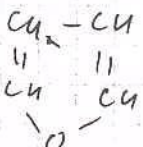
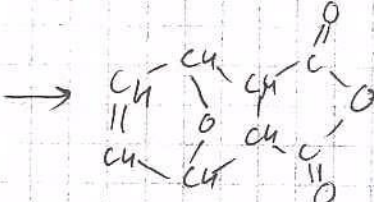
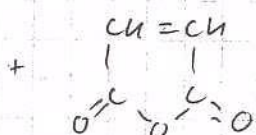
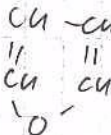
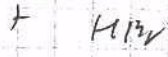
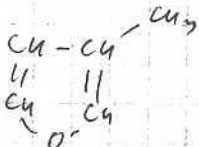
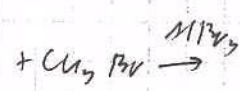
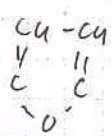
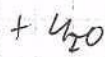
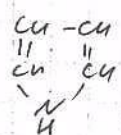
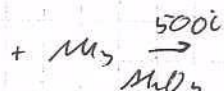
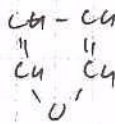
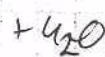
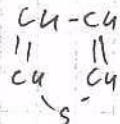
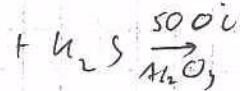
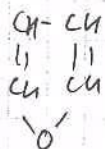
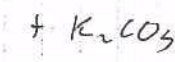
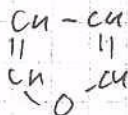
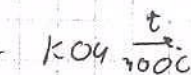
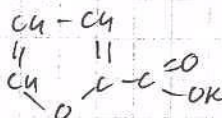
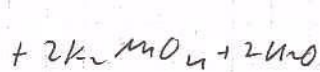
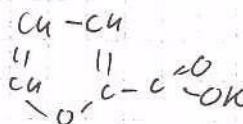
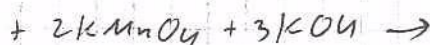
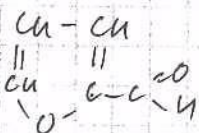
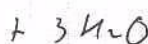
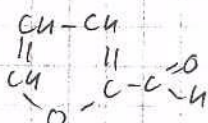
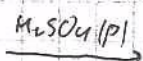
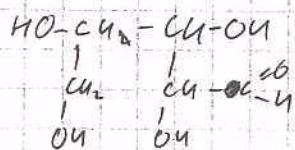
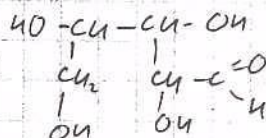
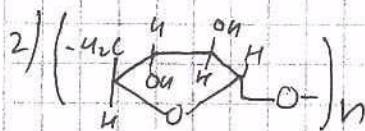
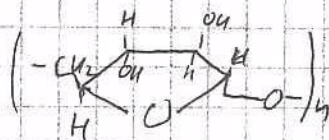


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|-----------------|----------|-------------|---------|
| 47,25           | 17.03.25 | Фадеева     | Евгений |
| Шифр 025-2-X-62 |          |             |         |

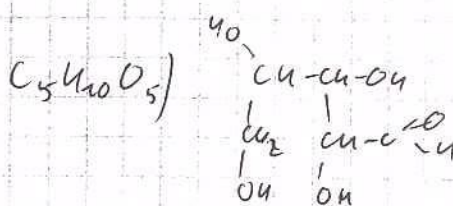
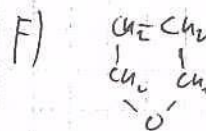
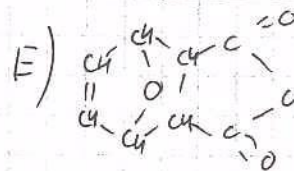
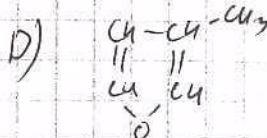
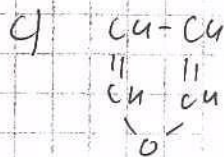
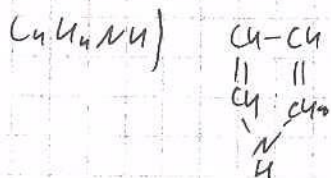
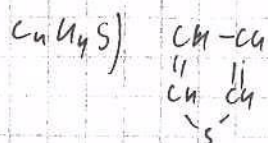
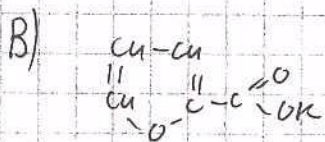
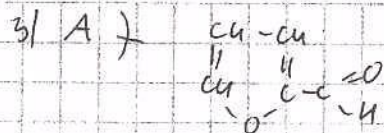
Задание 11-2

1) Пентозан



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| 47,25      | 17.03.25 | Резумов     | Резумов |

Шифр 025-2-X-62



Задача 11.1

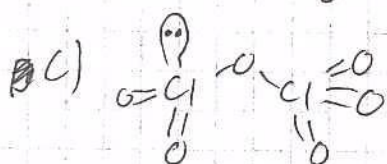
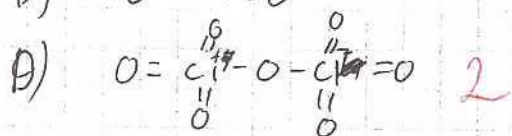
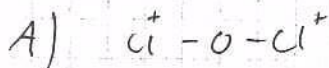
1)  $\text{X} = \text{Cl}$  - хлор.

A)  $\text{Cl}_2\text{O}$  - оксид хлора I

B)  $\text{Cl}_2\text{O}_2$  - диоксид хлора (оксид хлора IV)

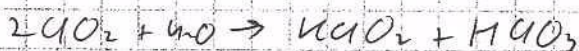
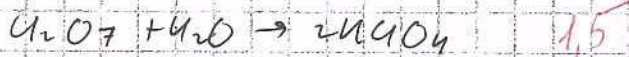
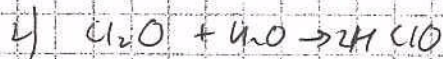
C)  $\text{Cl}_2\text{O}_3(\text{Cl}_2\text{O}_6)$  - оксид хлора VI

D)  $\text{Cl}_2\text{O}_7$  - оксид хлора VII 1,75





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| Шифр       |          |             | 025-2-X-62         |

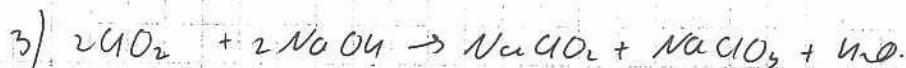
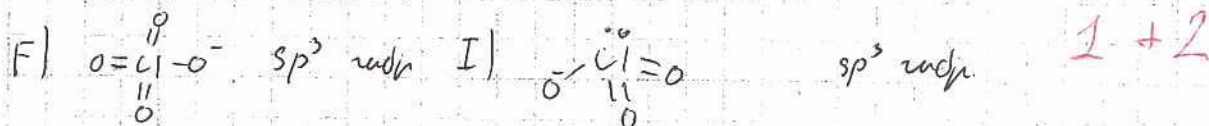


Е)  $\text{HClO}_4$  - перхлоратная кислота.

Ф)  $\text{HClO}_4$  - перхлорная кислота

И)  $\text{HClO}_2$  - хлористая кислота 1

И)  $\text{HClO}_3$  - хлорноватая кислота



$m_{\text{р-ра}}(\text{NaOH}) = \rho \cdot V = 1,1305 \frac{\text{г}}{\text{мл}} \cdot 90 \text{ мл} = 101,78 \text{ г}$

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

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

$n(\text{NaOH}) = \frac{m}{M} = \frac{12,21}{40} = 0,305 \text{ моль}$  - избыток 2

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

$m(\text{NaClO}_2) = 0,2 \text{ моль} \cdot 90,5 \frac{\text{г}}{\text{моль}} = 18,1 \text{ г}$

$m(\text{NaClO}_3) = 0,2 \text{ моль} \cdot 106,5 \frac{\text{г}}{\text{моль}} = 21,3 \text{ г}$

$m(\text{H}_2\text{O}) = 0,2 \cdot 67,5 \frac{\text{г}}{\text{моль}} = 13,5 \text{ г}$

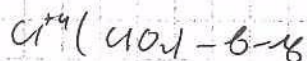
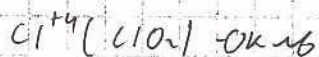
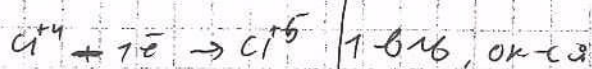
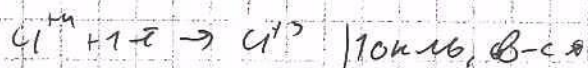
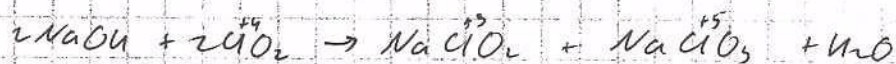
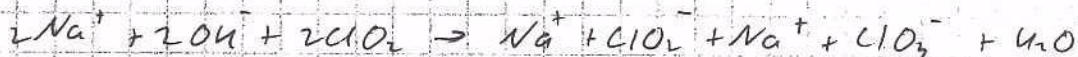
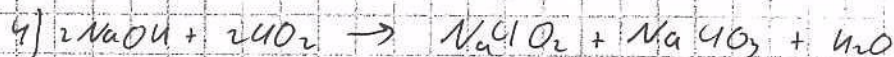
$m(\text{р-ра}) = m(\text{H}_2\text{O}) + m_{\text{р-ра}}(\text{NaOH}) = 13,5 + 101,78 = 115,28 \text{ г}$  1

$\omega(\text{NaClO}_2) = \frac{m(\text{NaClO}_2)}{m(\text{р-ра})} = \frac{18,1}{115,28} = 0,157$  или 15,7%

$\omega(\text{NaClO}_3) = \frac{m(\text{NaClO}_3)}{m(\text{р-ра})} = \frac{21,3}{115,28} = 0,1848$  или 18,48%

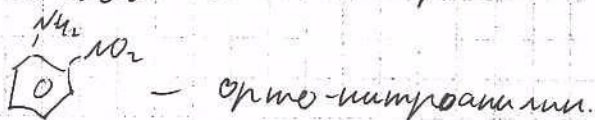
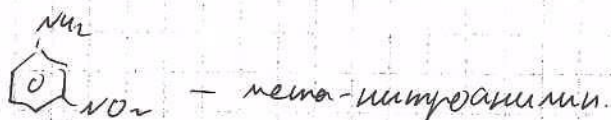
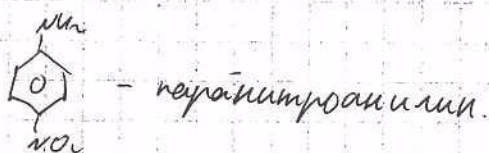


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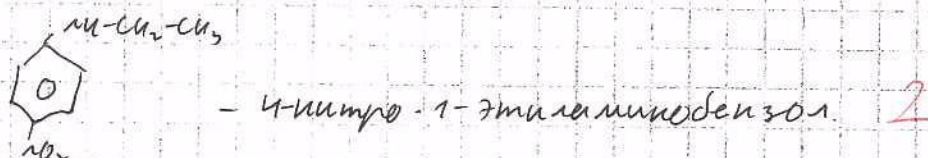
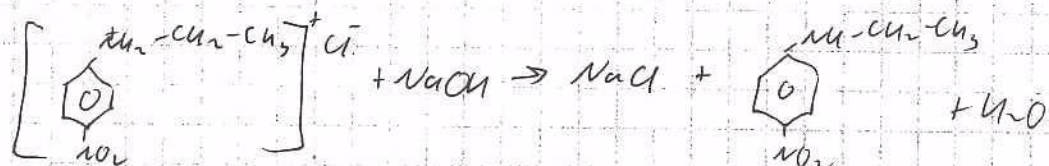
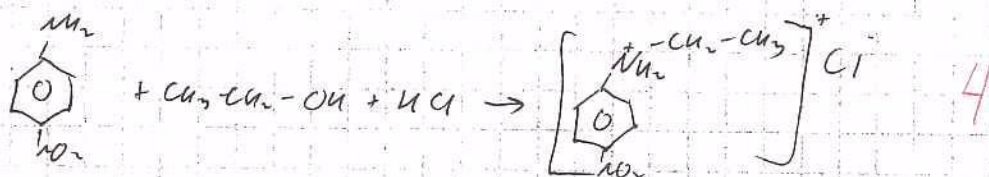


Задача 11.3

1)



3)



Место для  
скобы

О Р М О

Открытая региональная  
межевузовская олимпиада

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| 47,25      | 17.05.25 | Федотова    |            |
| Шифр       |          |             | 025-2-X-62 |

Задача 11.4

А)

~~COOH~~

