



ШИФР

14742

Класс 10

Вариант 8

Дата Олимпиады 24.02.2018

Площадка написания МАНУ МНМН

Задача	1	2	3	4	5	6	Σ		Подпись
							Цифрой	Прописью	
Оценка	5	5	3	2	3	5	23	двадцать три	

Задача 1)



$m = 62$

$v = 1,121$

$$V(\text{NO}) = \frac{V}{V_m} = \frac{1,12}{22,4} = 0,05 \text{ моль}$$

$$\frac{V(\text{NO})}{V(\text{Mn})} = \frac{2}{3}; V(\text{Mn}) = 0,075 \text{ моль}$$

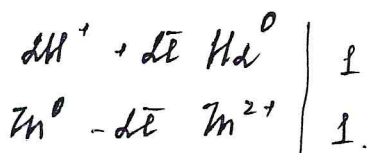
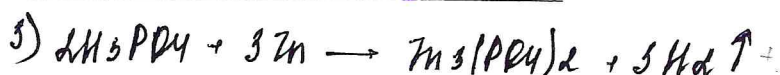
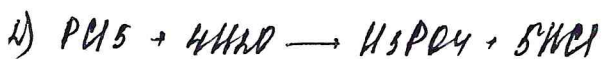
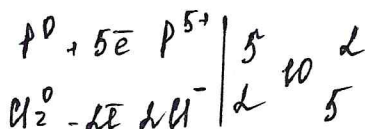
$$m(\text{Mn}) = 4,812$$

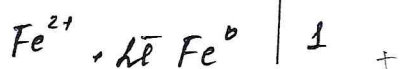
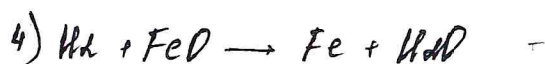
$$m(\text{CuO}) = 1,2(1)$$

$$\omega(\text{CuO}) = \frac{1,2}{6} \cdot 100\% = 20\%$$

ответ: $\omega(\text{CuO}) = 20\%$

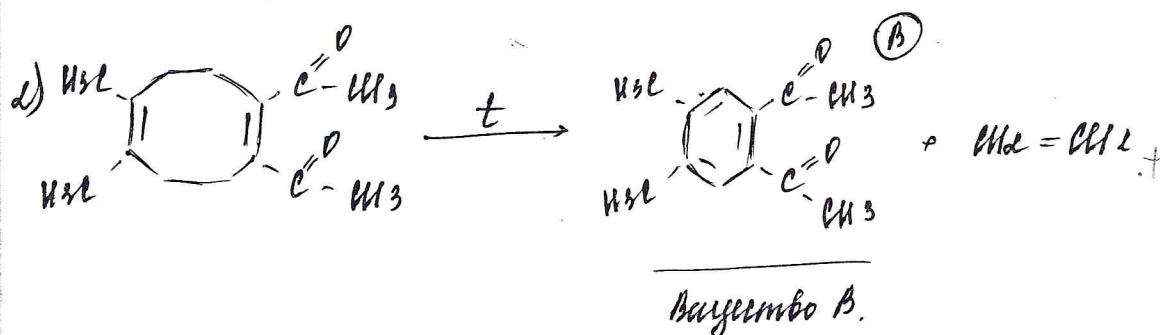
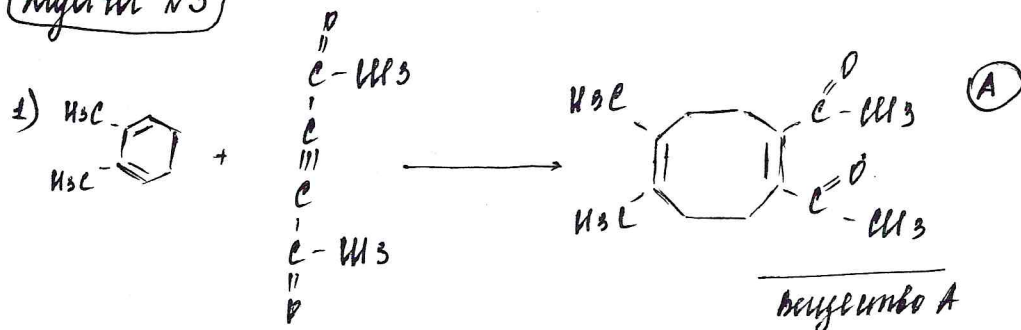
Задача 2)



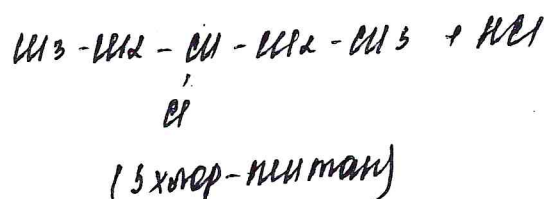
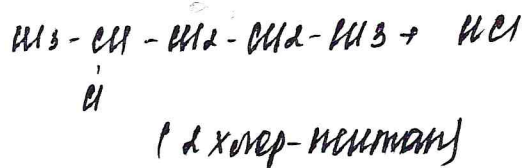
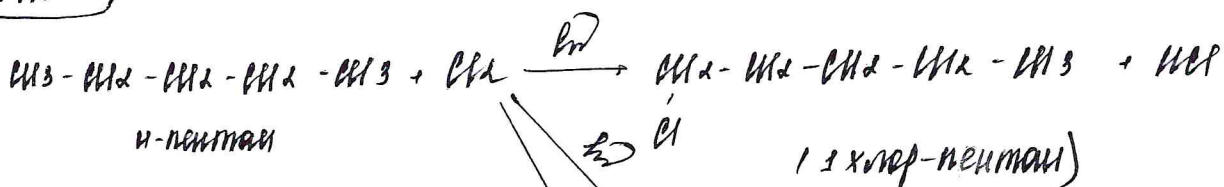


(58)

Задача №3



Задача №4



первичных (H) = 6.

вторичных (H) 6 — 4
2.

пусть I = x ; II = 3,9x

$$I = 6 \cdot x = 6x$$

$$II_1 = 2 \cdot 3,9x = 7,8x$$

$$II_2 = 4 \cdot 3,9x = 15,6x$$

$$\left. \begin{array}{l} 6x \\ 7,8x \\ 15,6x \end{array} \right\} 29,4x$$

$$\omega(I) = \frac{6x}{29,4x} \cdot 100\% = 20,4\%$$

$$\omega(II_1) = \frac{7,8x}{29,4x} \cdot 100\% = 26,5\%$$

$$\omega(II_2) = \frac{15,6x}{29,4x} \cdot 100\% = 53,06\%$$

$$\left. \begin{array}{l} 26,5\% \\ 53,06\% \end{array} \right\} 79,6\%$$

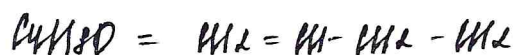
$$\Rightarrow \frac{20,4\%}{79,6\%} = 25,9\%$$

ответ: 1-хлорпентана — 20,4%.

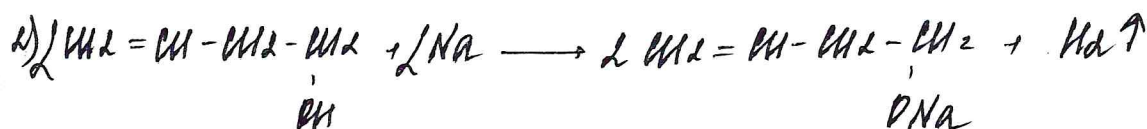
2-хлорпентана — 53,06%.

3-хлорпентана — 26,5%.

задача №5



или (бутен(4)-ол-1)





ШИФР

14741.



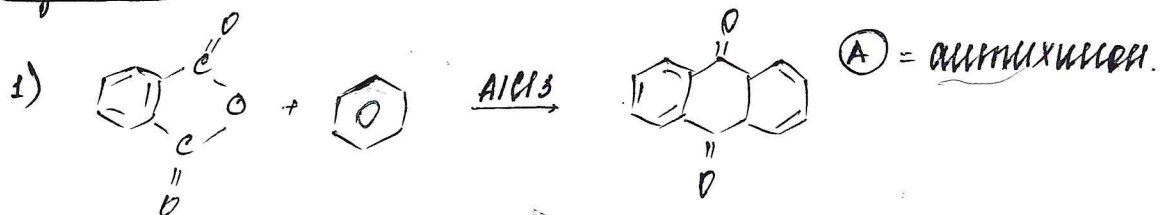
, 4 KNO_3 + HNO_2 .

при окислении шлоныти

окислительные метаболиты к-та

полученные не имеют.

Задача 6



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