

Шифр: 9-21

Всероссийская олимпиада школьников  
Региональный этап

по химии  
2017/2018  
Ленинградская область

Район Тихвинский

Школа МОУ „СОШ №5“

Класс 8

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9-21

Zagard	Bauer	Trabzonspor
1	0	
2	14,5	
3	0	
4	0	
5	0	
6.	0	

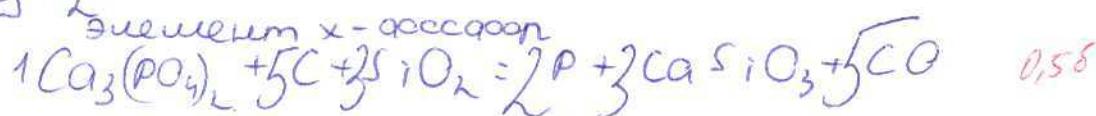
$$\Sigma = 14,5$$



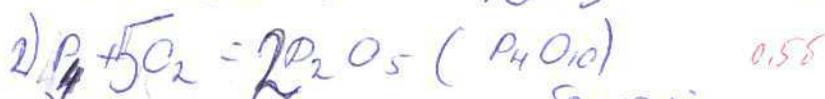
# Чистота

9-21

Q-2



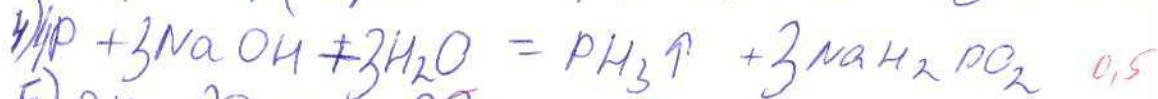
0,58



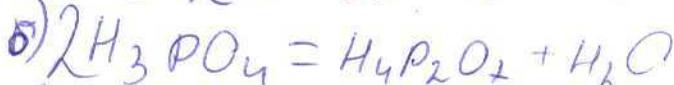
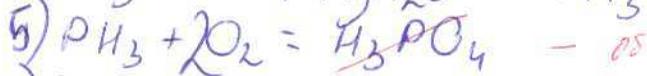
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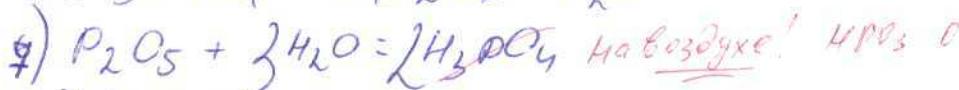
0,15



0,5



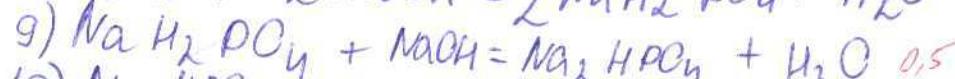
A - P 0,5



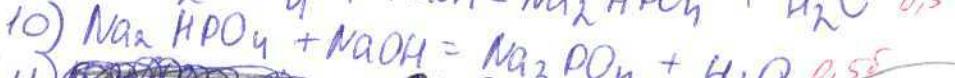
B P<sub>2</sub>O<sub>5</sub> (P<sub>4</sub>O<sub>10</sub>) 0,5



B P<sub>4</sub> 0,5



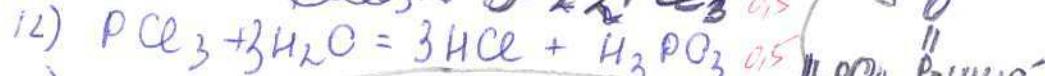
C PH<sub>3</sub> 0,5



D NaH<sub>2</sub>PO<sub>4</sub> 0,5



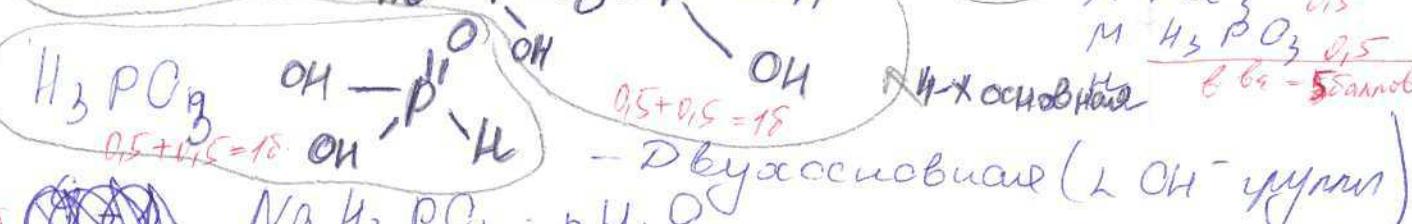
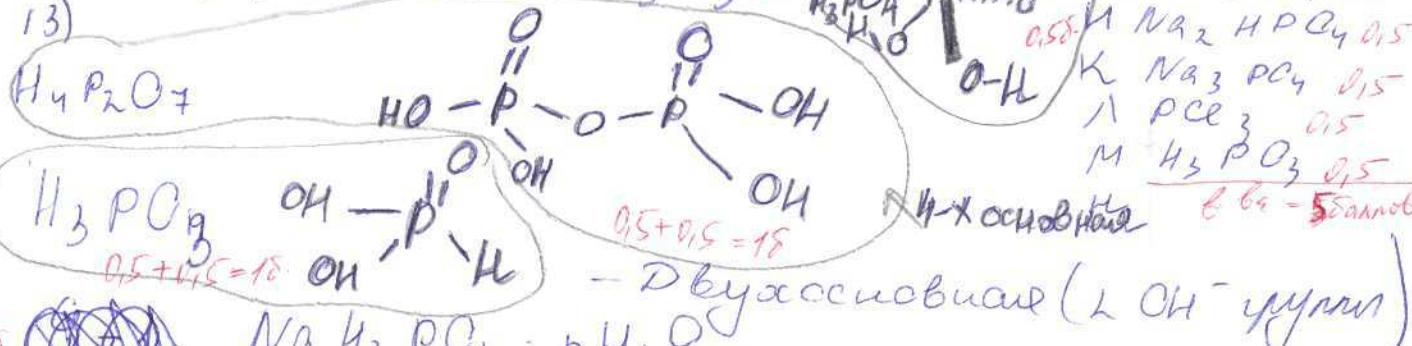
E H<sub>3</sub>PO<sub>4</sub> 0



F H<sub>3</sub>Na<sub>2</sub>PO<sub>4</sub> 0,5



G Na<sub>3</sub>PO<sub>4</sub> 0,5



H  $\text{H}_3\text{PO}_4 - \text{базофила}$  (2 OH<sup>-</sup> нужны)

Прим. = 4,0

ф. Ca = 5,5.

$\frac{x}{4,0} = 1,0$

$\frac{5,5}{x} = 0,5$

$x = 1,158$

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Чистота  
 $\nu(\text{CaO}) \cdot \nu(\text{H}_2\text{O}) = 3,316 : 26,572 \Rightarrow \text{CaO} \cdot 3\text{H}_2\text{O}$

Природная вяжущая -  $\text{CaO} \cdot 3\text{H}_2\text{O}$

08 - Y -  $2\text{CaSO}_4 \cdot \text{H}_2\text{O}$  (дисбасмур)

08 - X -  $\text{CaO} \cdot 3\text{H}_2\text{O}$

08 -  $\text{CaO} + 2\text{HCl} = \text{H}_2\text{O} + \text{CaCl}_2$   
 $m(\text{CaO}) = 1m$

$$\nu(\text{CaO}) = 0,017857$$

$$\nu(\text{HCl}) = 0,035714284$$

$$m(\text{HCl}) = 6,5 \text{ гр.}$$

08  $V = \frac{m}{\rho}$

$\Sigma = 08$   $V(\text{HCl}) = \frac{6,5}{1,1} = 5,9 \text{ дм.}$

9 - 4

1) Наиболее чистое минерал  
n - это алюмосиликат, содержащий  
в окрестах

a)  $n = 1$

$$0,3 = \frac{16}{X}$$

$$X = 53,34$$

~~MeO~~; ~~MeO~~ чистое минерал  
содержит

b)  $0,3 = \frac{16}{X} \text{ or}$

$$X = 53,34 \text{ Me}_2\text{O}$$

$$\text{Me} = 27$$

но в самой ячейке Me I - бактерии  
 $\Rightarrow$  это не чистый золото AC

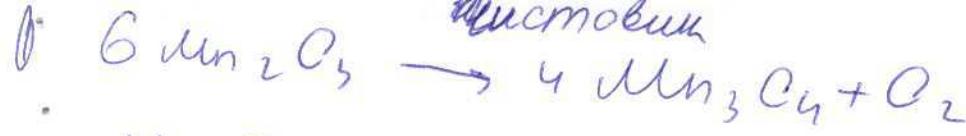
c)  $0,3 = \frac{48}{X}$

$$X = 160$$

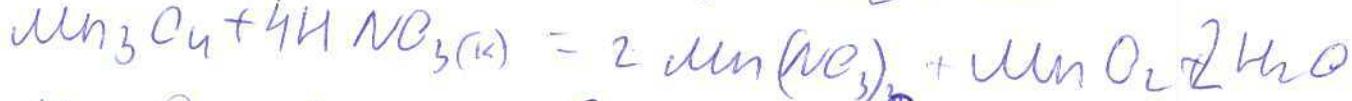
08

$$160 - 48 : 2 \approx 55$$

Значит, это  $\text{Mn}_2\text{O}_3$  - 2 -

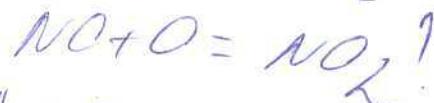
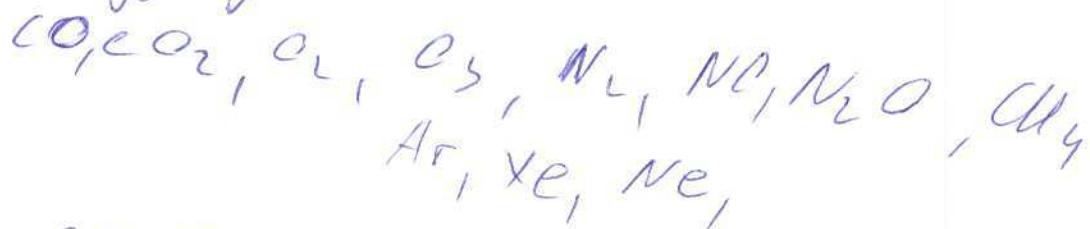


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9-5

Также, выделяющие б основные вещества

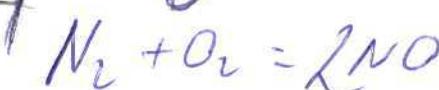
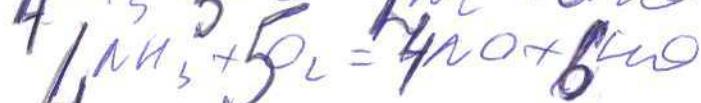


$A + B$  - начальная масса начальной смеси - 23

$B + C$  - начальная масса этой смеси - 16

$B + F$  - начальная масса промежуточной  
основной сульфурной кислоты -  $\text{O}_2$  и  $\frac{24}{16}$

~~$\text{CO}_2$~~  +  
Будущее уравнение неизвестно



08

