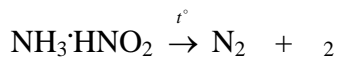


« »-2012 11

1.



2.

3 - N

3.

1748

: «...»

...».

1789

4.

$$n = \frac{m}{M} = \frac{V}{V_M} = \frac{N}{N_A}$$

n

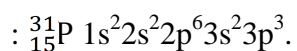
5.

MgO -

1 -

S -

6.



7.

$$: W = \frac{n \cdot Ar}{Mr} \cdot 100\%$$

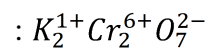
$$: Mr(\text{CaCO}_3) = 40 + 12 + 3 \cdot 16 = 100$$

$$: W(\text{Ca}) = \frac{n \cdot Ar(\text{Ca})}{Mr(\text{CaCO}_3)} \cdot 100\% = \frac{40}{100} \cdot 100\% = 40\%$$

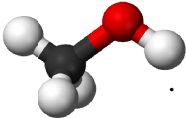
8.

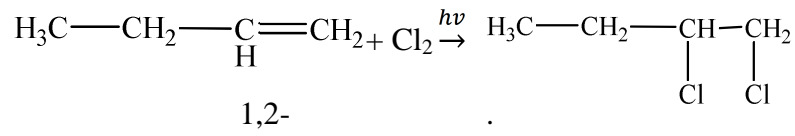
2, 2, N₂

9.

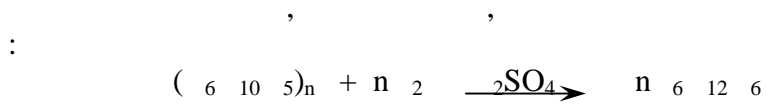


10.

3. ,
11. Na^+ S^{2-}
12. ,
- $2^+ + \text{SO}_4^{2-}$ SO_4
13. : H_2S — , HBr — , HCl —
14. : ()₂ + 2 3 + 2
- 15.
16. $2\text{H}_2\text{SO}_4 + 2\text{Na}$ $2\text{NaHSO}_4 + \text{H}_2$. (, ,)
- 17.
18. $4 + \text{HNO}_3$ () $3 - \text{NO}_2 + \text{H}_2$:
19. $\text{H}_3\text{C}-\text{CH}_2-\text{C} \begin{matrix} \text{O} \\ \parallel \\ \text{OH} \end{matrix}$, $\begin{matrix} \text{CH}_2 & - & \text{CH}_2 \\ | & & | \\ \text{OH} & & \text{OH} \end{matrix}$
20. , () .
21. 3^- , 
22. -1 : 2



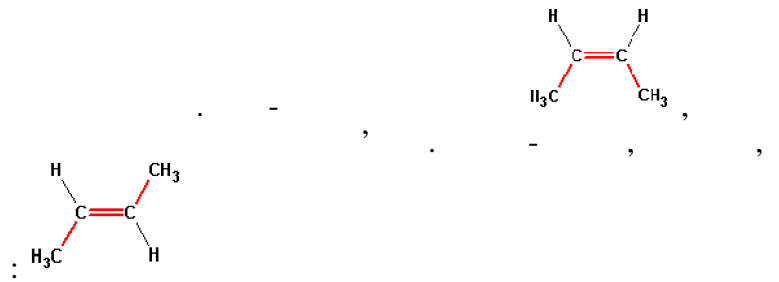
23.



24.

25.

26.



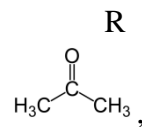
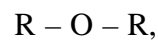
27.

- 1.
- 2.
- 3.

28.

4 8.

29.

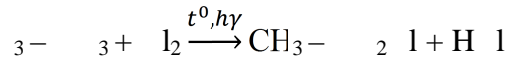


30.

6 12 6

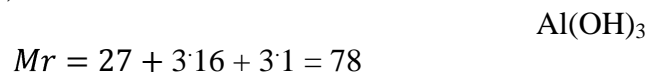
31.

32.

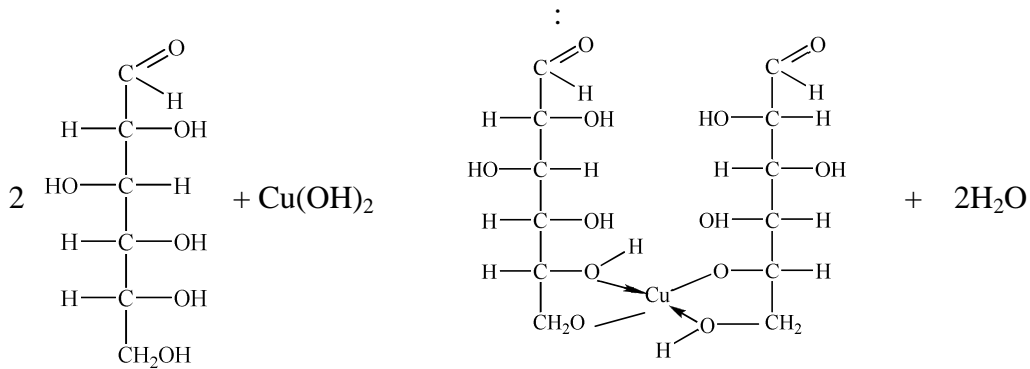


33.

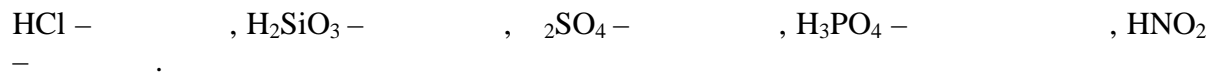
34.



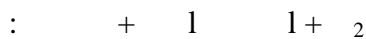
35.



36.



37.



38.

39.

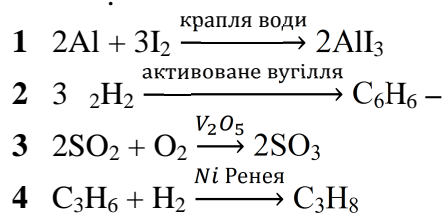


40.

$$3 - 2 - 2 - = 2 - \quad -1, \quad 5 \quad 10 \quad : \quad - \quad 3 - \quad -2.$$

41.

1				X
2		X		
3				X
4	X			

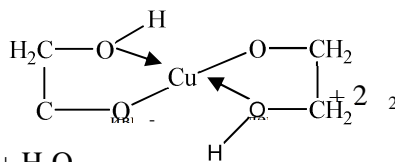
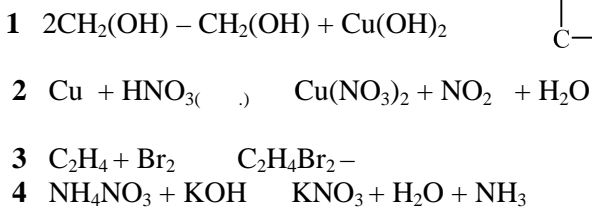


42.

1		X		
2				X
3	X			
4			X	

43.

1				X
2	X			
3			X	
4			X	

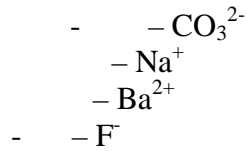


44.

1				X
2		X		
3	X			
4			X	

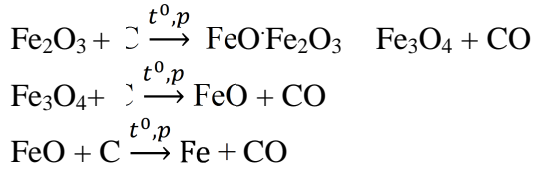
- 1 $\text{Li}_2\text{O} -$
- 2 $\text{Rb} -$
- 3 $\text{I}_2 -$
- 4 $\text{CH}_4 -$

45.



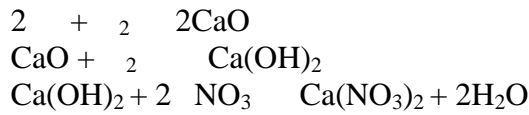
1	X			
2				X
3		X		
4			X	

46.



1		X		
2			X	
3	X			
4				X

47.

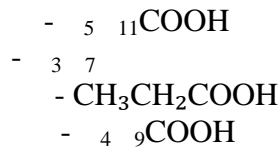


1				X
2		X		
3			X	
4	X			

48.

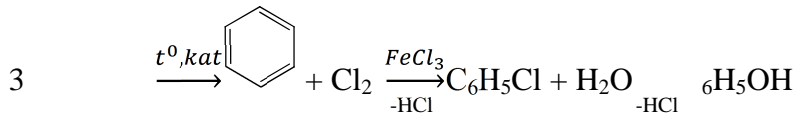
1				X
2		X		
3			X	
4	X			

49.



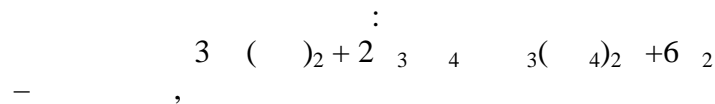
1			X	
2		X		
3				X
4	X			

50.



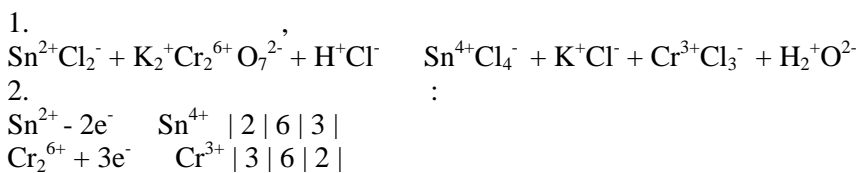
1		X		
2	X			
3				X
4			X	

51. 12



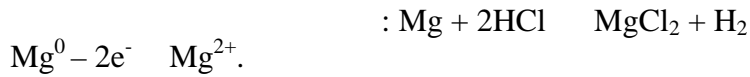
- 12.

52. 18

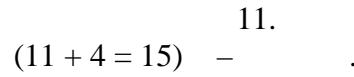




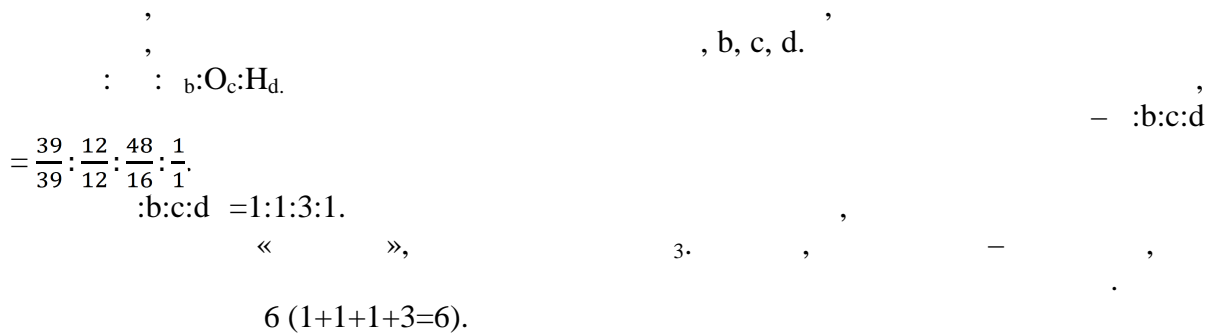
53. 2



54. 15

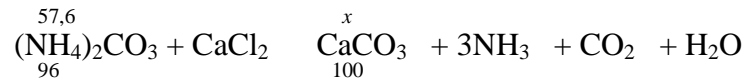


55. 6

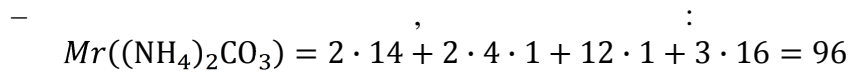


56. 60

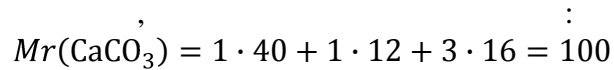
1.



2.



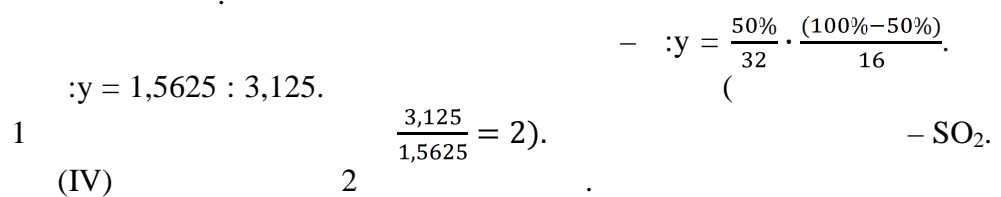
4.



5.

— :
 $x = \frac{57,6 \cdot 100}{96} = 60\text{г}$

57. 2



58. 5

1.С $m = V \cdot \rho$ необхідно перевести об'єм розчину в масу.
 $m_{\text{розчину}} = 500 \cdot 1,8 = 900\text{г}$

2.

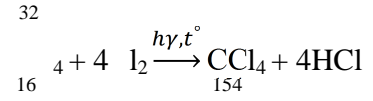
$$W = \frac{m_{\text{речовини}}}{m_{\text{розчину}}} \cdot 100\%$$

$$W(H_2SO_4) = \frac{45}{900} \cdot 100\% = 5\%$$

59.90

1.

$$W_{\text{вих.}} = \frac{m_{\text{практ.}}}{m_{\text{геор.}}} \cdot 100\%$$



2.

3.

$$x = \frac{32 \cdot 154}{16} = 308\text{г.}$$

4.

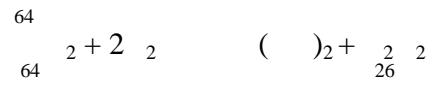
$$:W_{\text{вих.}} = \frac{277,2}{308} \cdot 100\% = 90\%$$

60.26

1.

$$m_{\text{чист.}} = \frac{(100\% - 50\%) \cdot 128}{100\%} = 64\text{г}$$

2.



3.

$$x = \frac{64 \cdot 26}{64} = 26$$