

-1

-2

- 3

- 4

-

( ) :

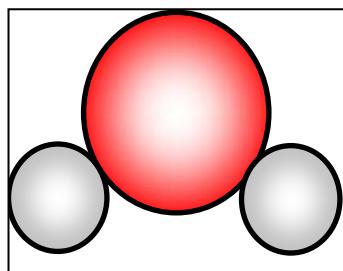
400



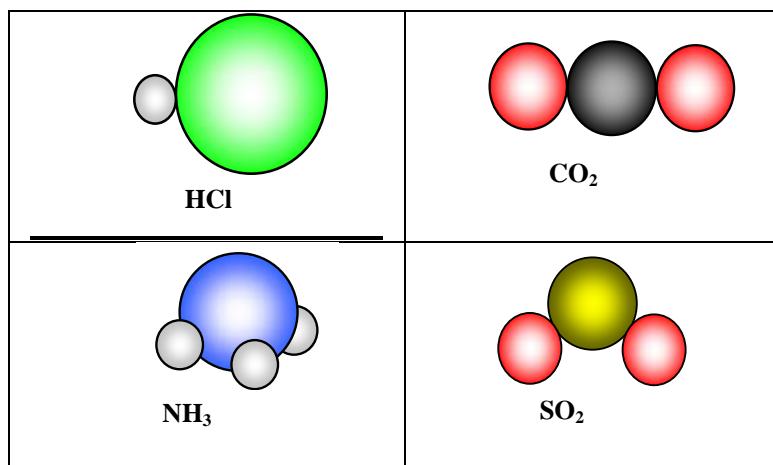
: -1

.(.....)

- 2



- 3



-1

$$(+e = 1,6 \cdot 10^{-19} \text{ coulomb})$$

(Z)

(N)

$$A = ( )$$

$$A = Z + N$$

-2

$$q = -e = 1,6 \cdot 10^{-19} \text{ coulomb}$$

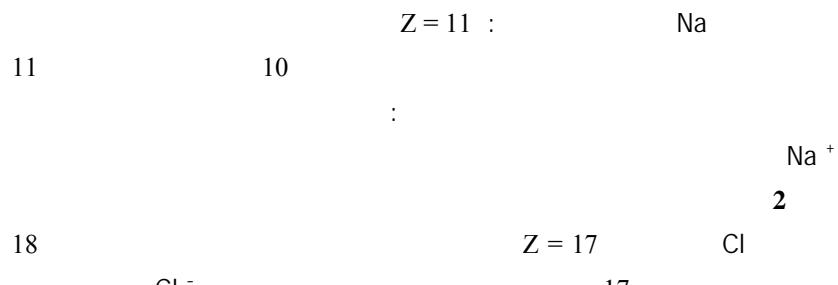
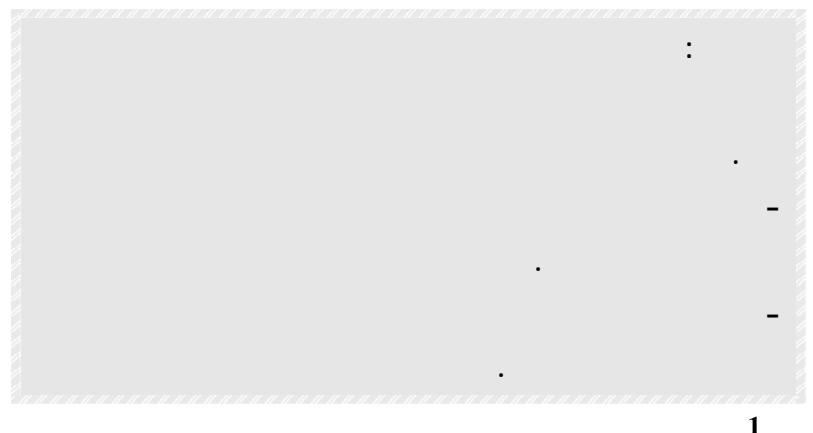
$$Z \times (-e) + Z \times (-e) = 0$$

$$Z = 11$$

$$((e)11) \quad 11 \quad ((-e)11) \quad 11$$

$$11 \times (-e) + 11 \times (-e) = 0$$

|  |                            |                            |                            |  |
|--|----------------------------|----------------------------|----------------------------|--|
|  |                            |                            |                            |  |
|  | $-1,6 \times 10^{-19} C$   |                            | $+1,6 \times 10^{-19} C$   |  |
|  | $9,109 \times 10^{-31} Kg$ | $1,674 \times 10^{-27} Kg$ | $1,672 \times 10^{-27} Kg$ |  |



$$18(-e) + 17(+e) = -1e$$

**3**

Z = 8

0

O<sup>2-</sup>

. 10

$$10(-e) + 8(+e) = -2e$$

$$X_z^A : Z : A$$

$$N_7^{14} : \begin{matrix} & \\ 14 & 7 \end{matrix}$$

:

$$( \quad ) \quad 14 . \quad 7$$

$$N = 14 - 7 = 7 \quad N = A - Z \quad A = Z + N : 7$$

$$K - L - M - N - O - P - Q : 2 =$$

$$= \quad = \\ ( \quad ) \quad .( \quad )$$

$$K \quad . \quad 2 = \quad 1 = :_2$$

$$L \quad . \quad 8 = \quad 2 = :_2$$

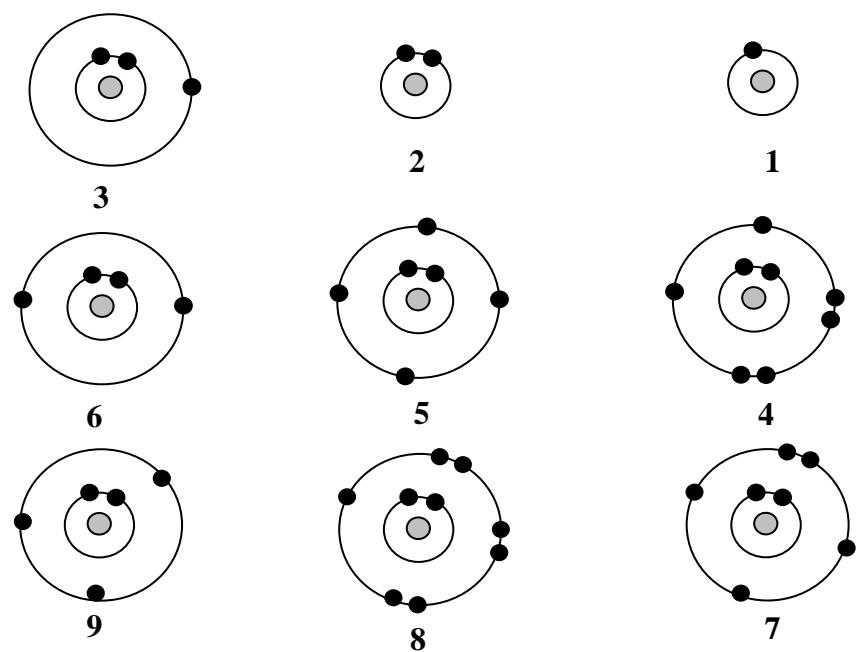
$$M \quad . \quad 18 = \quad 3 = :_3$$

: 1

: 2

$$.( \quad ) 3 \quad - \quad ( \quad )$$

:



|             |          |             |          |          |     |                 |
|-------------|----------|-------------|----------|----------|-----|-----------------|
| Z=3<br>(Li) | <b>3</b> | Z=2<br>(He) | <b>2</b> | (H)      | Z=1 | <b>1</b>        |
| Z=4<br>(Be) | <b>6</b> | Z=6<br>(C)  | <b>5</b> | (O)      | Z=8 | <b>4</b>        |
| (B)         | Z=5      | (F)         | Z=9      | <b>8</b> | (N) | Z=7<br><b>7</b> |

:  
.( z=11 , Na) ( Z=17, Cl)  
.()