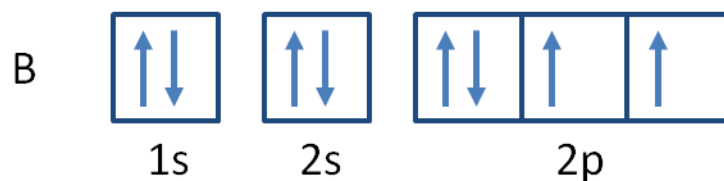
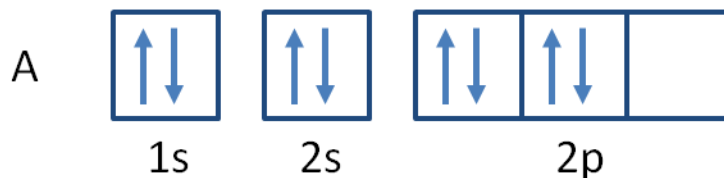


Electron Configuration Exit Quiz – Teacher Edition

1. Which of the following is the correct way to fill the orbital diagram for oxygen



Justify your answer.

2. Magnesium has the notation $1s^2 2s^2 2p^6 3s^2$. Complete the orbital diagram below.



3. Fluorine has the notation $1s^2 2s^2 2p^5$. Complete the orbital diagram below.

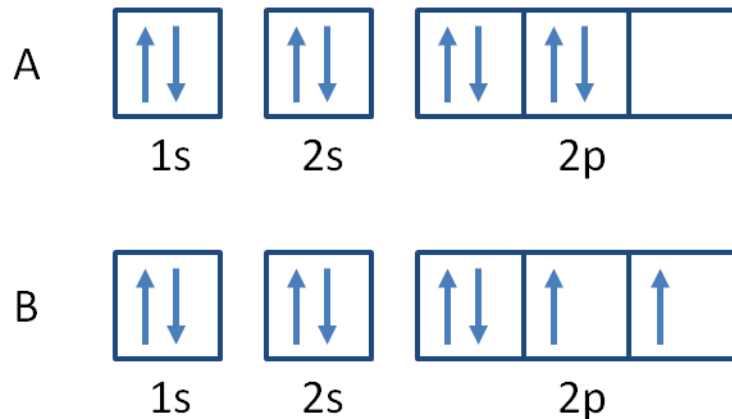


4. Chlorine has the notation $1s^2 2s^2 2p^6 3s^2 3p^5$. Complete the orbital diagram below.



Electron Configuration Exit Quiz – Teacher Edition

1. Which of the following is the correct way to fill the orbital diagram for oxygen

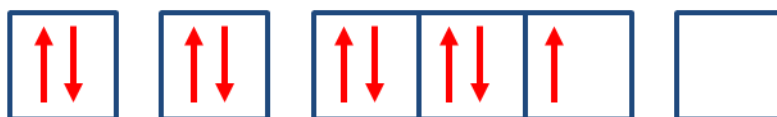


Option B

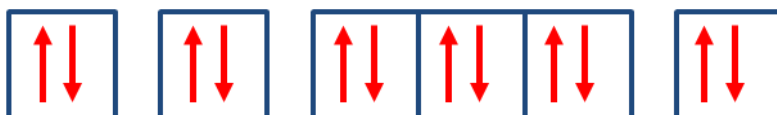
Justify your answer.

Option B satisfies Hund's rule where electrons fill up all available orbitals prior to doubling up with those which have the opposing spin.

2. Magnesium has the notation $1s^2 2s^2 2p^6 3s^2$. Complete the orbital diagram below.



3. Fluorine has the notation $1s^2 2s^2 2p^5$. Complete the orbital diagram below.



4. Chlorine has the notation $1s^2 2s^2 2p^6 3s^2 3p^5$. Complete the orbital diagram below.

