

1. Which electron configuration(s) is/are correct?

1 Cr atom: $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$

2 Cu atom: $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^1$

3 Fe^{2+} ion: $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$

A 1, 2 and 3

B Only 1 and 2

C Only 2 and 3

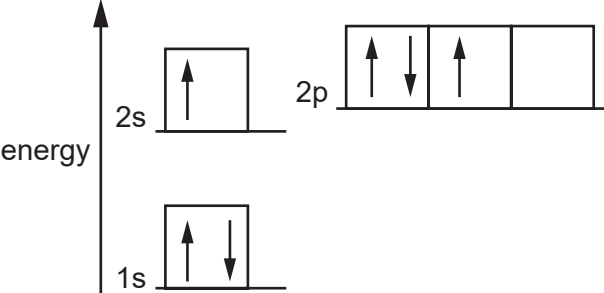
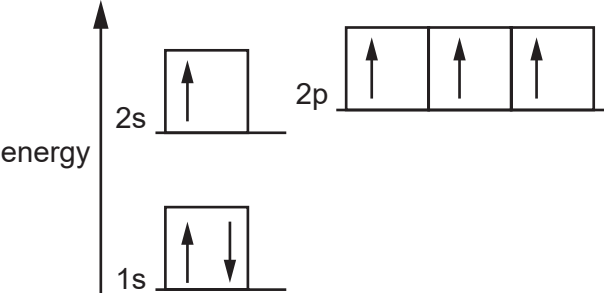
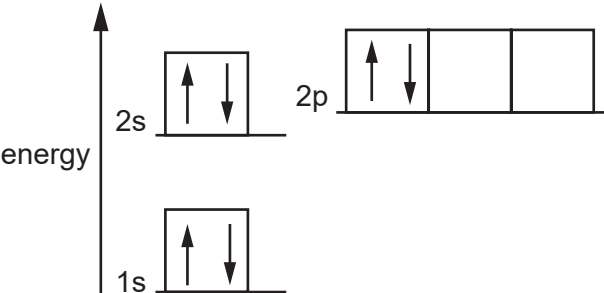
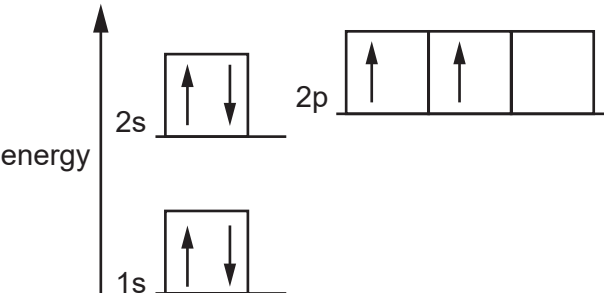
D Only 1

Your answer

[1]

2. In the diagrams below, each box represents an orbital and each electron is shown as an arrow.

Which diagram shows the correct arrangement of electrons in an atom of carbon?

A	
B	
C	
D	

Your answer

[1]