Exercise 2.34 – Electronic configuration

Q234-01 2,8,8,2 is the ground state electronic configuration of which of the following elements:

A. Ca
B. Sc
C. Zn
D. V

Q234-02 2,8,1 is the ground state electronic configuration of which of the following elements:

A. Ca
B. Na
C. K
D. F

Q234-03 Which atom has the correct ground state electron configuration?

A. Cl: 2,8,6
B. Ca: 2,8,2
C. C: 2,8,4
D. Ar: 2,8,8

Q234-04 To which group in the periodic table does the element with a configuration 2,8,2 belong?

Q234-05 What is the charge on the ion formed by magnesium (2,8,2)?

Q234-06 What is the electronic configuration of the ion formed by fluorine?

Q234-07 What is the electronic configuration of the aluminium ion?

Q234-08 In which period of the periodic table do you find the element with a configuration of 2,6?

Q234-09 How many electrons must the element sulphur gain or lose to achieve a full outer shell?

Q234-10 Which of the following represents the configuration of an element in an excited state?

A. 2,7,6
B. 2,8,2
C. 2,8
D. 2,8,8,1