AQA Chemistry Unit 1: Atomic Structure and the Periodic Table Multiple Choice Questions Set 1

You may use the periodic table to answer these questions.

Tick **one** box.

- 1. Which element has an atomic number of 16?
 - A. selenium
 - B. silicon
 - C. sodium
 - D. sulfur

2. Which subatomic particle has a negative charge?

- A. atom
- B. electron
- C. neutron
- D. proton
- 3. Which element has a relative atomic mass of 56?
 - A. iron
 - B. iodine
 - C. iridium
 - D. tin

4. How many protons are there in an atom of sodium?

- A. 11
- B. 12
- C. 23
- D. 34
- 5. Which model of the atom is described as a ball of positive charge with negative electrons embedded in it?
 - A. planetary model
 - B. solid sphere model
 - C. nuclear model
 - D. plum pudding model
- 6. What is the balanced symbol equation for the reaction between magnesium and oxygen?
 - A. Mg + O \rightarrow MgO

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- B. Mg + $O_2 \rightarrow 2MgO$
- C. Mg + $O_2 \rightarrow MgO_2$
- D. $2Mg + O_2 \rightarrow 2MgO$



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- 7. What is a solvent?
 - A. A homogenous mixture formed when a solute dissolves in a solvent.
 - B. The substance that dissolves in a liquid to make a solution.
 - C. The substance in which a solute dissolves.
 - D. A substance that will dissolve in a given liquid.
- 8. What is the electronic structure of an atom of nitrogen?
 - A. 2, 2, 3
 - B. 2,5
 - C. 2, 8, 4
 - D. 2, 2, 8, 2
- 9. Lithium exists naturally as two isotopes, ⁶Li and ⁷Li. The abundance of ⁶Li is 8% and the abundance of ⁷Li is 92%.

What is the relative atomic mass of lithium to 3 significant figures?

- A. 6.08
- B. 6.92
- C. 7.00
- D. 7.78

10. Which statement describes the trend in reactivity of the Group 7 elements?

- A. all the elements are equally reactive
- B. the reactivity of the elements decreases as you move down the group
- C. the elements of this group are unreactive
- D. the reactivity of the elements increases as you move down the group