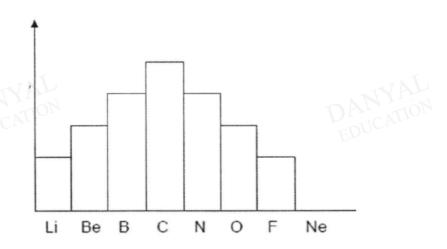
## O Level Pure Chemistry MCQs

## **Periodic Table Test 1.0**

Q1

The bar chart shows the period of elements from lithium to neon.



Which is the correct label for the y-axis?

- A the atomic number
- B the number of electrons involved in bonding
- C the number of valence electrons
- D the relative atomic mass

Q2

Astatine can be found in Group VII of the Periodic Table.

Which statement is correct?

- A Astatine can conduct electricity.
- B Astatine forms a soluble silver salt.
- C Astatine can form both ionic and covalent compounds.
- D Astatine occupies 24 dm<sup>3</sup> at room temperature and pressure.

# Which statement about transition metals is **not** correct?

- A Transition metals can behave as catalysts.
- B Transition metals have high melting and boiling points.
- C Transition metals can have variable oxidation states.
- D Transition metals tend to be coloured.

**Q**4

The element astatine (At) is beneath iodine in Group VII of the Periodic Table.

Which one of the following is a likely property of astatine?

- A It can be liberated from a solution of its salt by chlorine gas.
- B It conducts electricity in molten state.
- C It forms a basic oxide.
- D It displaces iodine from aqueous potassium iodide.

Q5

The table below represents 8 elements P, Q, R, S, T, U V and W across Period 2 of the Periodic Table.

<sub>3</sub> Р	4Q	5R	6S	7T	8U	Ve	10W	
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Which of the following properties is incorrect?

- A The chlorides of T have high melting points whereas chlorides of P have low melting points.
- B The oxides of T are acidic whereas the oxides of P are alkaline.
- C P and Q are metals whereas V and W are non-metals.
- D V atoms are smaller than P atoms.

**Q**6

Which statement about groups in the Periodic Table is correct?

- A All elements form either positively charged ions or negatively charged ions.
- B In Group I, all the elements form covalent compounds with hydrogen.
- C In Group VII, all the elements form ionic bonds with most metals.
- D All groups contain acidic and basic oxides.

Q7

Going down Group I from lithium to caesium,

- A the reactivity decreases.
- B the number of electron shells increases.
- C the number of valence electrons increases.
- D the melting point increases.

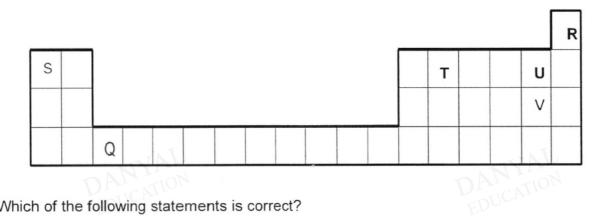
**Q**8

The table below represents 8 elements P, Q, R, S, T, U, V and W across Period 2 of the Periodic Table.

Which of the following is correct?

- A The chloride of T has a high melting point whereas the chloride of P has a low melting point.
- B The oxide of S is alkaline whereas the oxide of Q is acidic.
- C P and Q are metals whereas V and W are non-metals.
- D Element W forms the most stable compounds.

The diagram shows the positions of elements Q, R, S, T, U and V in the Periodic Table



Which of the following statements is correct?

- The valence shell of an atom of R has an octet structure.
- В The metallic character of the Period 2 elements increases from S to U.
- T forms an ionic compound with U. C
- U is a stronger oxidising agent than V. D

#### Q10

Which of the following statements correctly shows the general trend of the oxides of Period 3 elements from sodium to chlorine?

- The melting points of the oxides increase. Α
- The electrical conductivities of the molten oxides increase. В
- The bonds of the oxides show a trend from ionic to covalent. C
- The oxides show a trend from acidic to amphoteric and then to basic. D



### **Answers**

## **Periodic Table Test 1.0**

Q1B

Q2 C

Q3 D

Q4 A

Q5 A

Q6 C

Q7 B

Q8 C

Q9 D

Q10 D

DANYAL

DANYAL

DANYAL

DANYAL