

O Level Combined Chemistry MCQs

Periodic Table Test 1.0

Q1

Which of the listed reactions produce hydrogen?

reaction 1 : potassium with water

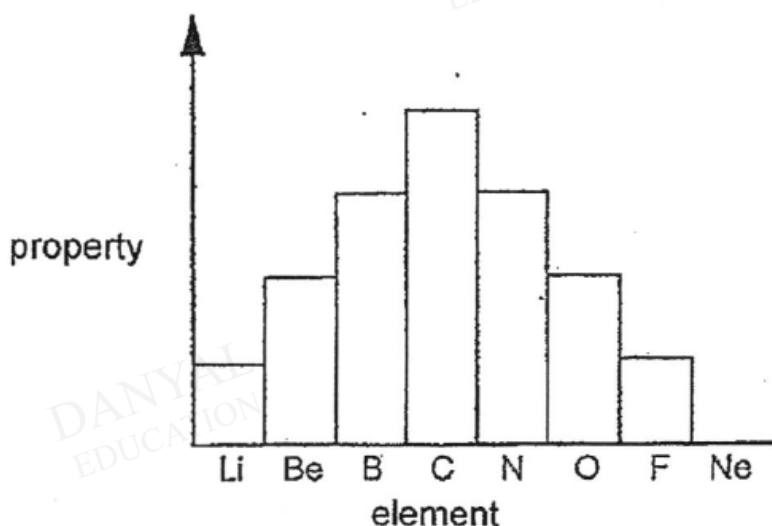
reaction 2 : sodium carbonate with hydrochloric acid

reaction 3 : zinc with hydrochloric acid

- A 1, 2 and 3
- B 1 and 2 only
- C 1 and 3 only
- D 2 only

Q2

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



Which property of these elements is shown on the chart?

- A the number of electrons used in bonding
- B the number of orbits holding electrons
- C the proton number
- D the relative atomic mass

Q3

Part of the Periodic Table is shown.

V	W																	X	
Y																		Z	

The letters are not the symbols of the elements.

Which statement is correct?

- A V is more reactive than Y.
- B W has more metallic character than V.
- C Y has a lower melting point than V.
- D Z is more reactive than X.

Q4

Lithium and rubidium are both in Group I of the Periodic Table. Which statement is correct?

- A Lithium ions and rubidium ions have the same electronic configuration.
- B Lithium atoms are larger than rubidium ions.
- C Lithium atoms and rubidium atoms have the same number of valence electrons.
- D Rubidium ions are larger than rubidium atoms.

Q5

Astatine (At) is in Group VII of the Periodic Table. Which of the following is a property of astatine?

- A It forms a basic oxide.
- B It is a good conductor of electricity.
- C It is displaced from aqueous potassium astatide by chlorine.
- D It displaces iodine from aqueous potassium iodide.

Q6

Which of the following is not a property of Group I metals?

- A They are soft and can be cut with a knife.
- B They corrode rapidly when exposed to oxygen in the air.
- C They produce an acidic solution when they react with water.
- D They react rapidly with water producing hydrogen gas.

Q7

The positions of the elements W, X, Y and Z are shown in the outline of part of the Periodic Table.

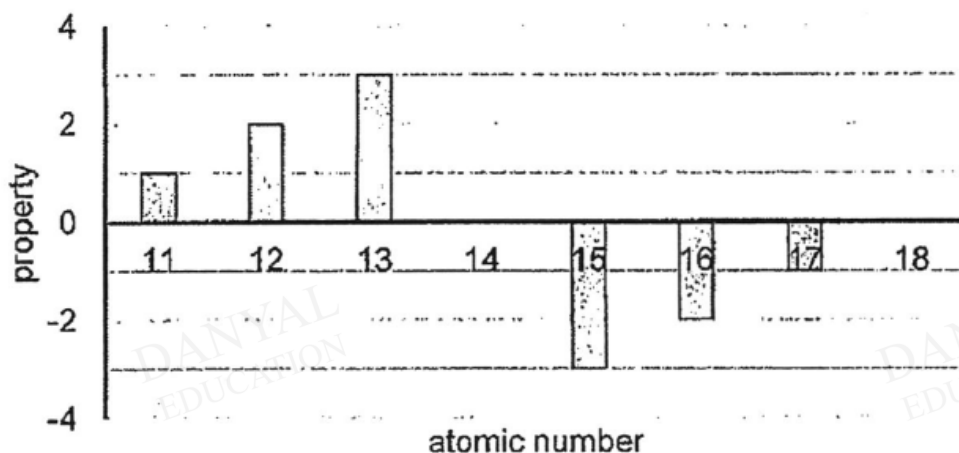
The diagram shows a simplified periodic table with three rows. The first row has two boxes labeled W and X on the left, followed by a gap, and then two boxes labeled Y and Z on the right. The second and third rows are complete grids of boxes. There is also a single box floating above the gap in the first row.

Which statement about these four elements is not correct?

- A All the elements are reactive with the exception of element Z.
- B An atom of element X has a greater mass than an atom of element W.
- C X forms diatomic molecules.
- D Y forms an ion with a negative charge.

Q8

The graph below shows the trend of a property of the elements in Period 3.



Which is the correct property shown?

- A charge of ions
- B ease of forming ions
- C number of electron shells
- D number of valence electrons

Q9

Which statement about the elements in the Periodic Table is correct?

- A Group 0 elements are unreactive metals.
- B Group I elements form covalent chlorides.
- C Group VII elements form ions when combined with other elements.
- D The elements become more metallic from right to left across a period.

Q10

Which statement describes the changes in the elements from left to right across a period of the Periodic Table?

- A The ability to conduct electricity increases.
- B The number of neutrons in an atom decreases.
- C The tendency to form positive ions increases.
- D The number of protons in an atom increases.

Answers

Periodic Table Test 1.0

Q1 C

Q2 A

Q3 C

Q4 C

Q5 C

Q6 C

Q7 C

Q8 A

Q9 D

Q10 D

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