

1. Which statement is correct for the element of proton number 19?

- A** It is a gas that dissolves in water.
- B** It is a hard metal that is not very reactive with water.
- C** It is a non-metal that burns quickly in air.
- D** It is a soft metal that is highly reactive with water.

2. Which information about an element can be used to predict its chemical properties?

- A** boiling point
- B** density
- C** melting point
- D** position in the Periodic Table

3. Which statement about the Periodic Table is correct?

- A** Elements in the same period have the same number of outer electrons.
- B** The elements on the left are usually gases.
- C** The most metallic elements are on the left.
- D** The relative atomic mass of the elements increases from right to left.

4.

In the Periodic Table, the elements are arranged in columns called Groups and in rows called Periods.

(a) Complete the table for some of the elements in Period 3.

group number	I	II	III	IV	V	VI	VII
symbol	Na	Mg	Al	Si	P	S	Cl
number of valency electrons							
valency							

[2]

(ii) What is the relationship between the group number and the number of valency electrons?

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..... [1]

(iii) Explain the relationship between the number of valency electrons and the valency for the elements Na to Al,

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for the elements P to Cl.

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