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Level: CIE AS and A Level (9701)

Subject: Chemistry

Topic: CIE Chemistry

Type: Topic Question

XVIII

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Chemistry CIE AS & A Level
To be used for all exam preparation for 2025+

CHEMISTRY

AS and A

This to be used by all students studying CIE AS and A level Chemistry (9701) But students of other boards may find it useful



Question 1

The period 4 elements gallium (Ga), germanium (Ge), arsenic (As) and selenium (Se) are the elements directly below aluminium, silicon, phosphorus and sulfur in the Periodic Table.

The properties of each period 4 element resemble those of the period 3 element directly above it.

Which period 4 elements form oxides that dissolve in water to give an acid solution?

- A. Ga and Ge
- B. Ga and Se
- C. As and Se
- D. Se only

[1 mark]

Question 2

Elements X and Y react together to form compound Z. Elements X and Y are both in Period 3. Element X has the second smallest atomic radius in Period 3. Apart from argon, there is only one element in Period 3 which has a lower melting point than element Y.

Which compound could be Z?

- A. Na_2S
- B. MgS
- C. MgCl_2
- D. PCl_3

[1 mark]

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Question 3

Compound **X** readily conducts electricity when added to water to produce a solution but does not conduct electricity in its liquid state.

Which of the following could **X** be?

- 1 MgCl_2
- 2 PCl_3
- 3 SiCl_4

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



[1 mark]

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