Q1. Which one of the following is a correct procedure for isolating a sample of hydrated copper(II) sulphate from a mixture of hydrated copper(II) sulphate and barium sulphate?

- A filter, crystallise filtrate, dry the crystals
- **B** filter, dry the solid on the filter paper
- **C** add water, filter, dry the solid left on the filter paper
- **D** add water, filter, crystallise filtrate, dry the crystals

(Total 1 mark)

Q2.Which one of the following is the electron arrangement of the strongest reducing agent?

- **A** 1s² 2s² 2p⁵
- **B** 1s² 2s² 2p⁶ 3s²
- C 1s² 2s² 2p⁶ 3s² 3p⁵
- **D** $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$

(Total 1 mark)

Q3.Which one of the following statements is correct?

- A The first ionisation energies of the elements in Period 3 show a general decrease from sodium to chlorine.
- **B** The electronegativities of Group 2 elements decrease from magnesium to barium.
- **C** The strength of the intermolecular forces increases from hydrogen fluoride to hydrogen chloride.
- **D** The ability of a halide ion to act as a reducing agent decreases from fluoride to iodide.

(Total 1 mark)

Q4. V		one of the following solutions would not give a white precipitate when added to barium oride solution?		
	Α	silver nitrate solution		
	В	dilute sulphuric acid		
	С	sodium sulphate solution		
	D	sodium nitrate solution		
		(Total 1 marl		
Q5.A	Q5. An aqueous solution of a sodium salt gave no precipitate when treated with either silver nitrate solution or barium chloride solution. Which one of the following could be the formula of the sodium salt?			
	Α	Nal		
	В	Na_2SO_4		
	С	NaBr		
	D	NaF (Total 1 mark		