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** 1s² 2s² 2p⁶ 3s² 3p⁶ 4s²

(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. Which one of the following solutions would not give a white precipitate when added to barium chloride solution?			
	Α	silver nitrate solution	
	В	dilute sulphuric acid	
	С	sodium sulphate solution	
	D	sodium nitrate solution (Total	al 1 mark)
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	al 1 mark)