5	This question is about the chemical properties of chlorine, sodium chloride and sodium bromide.
0 5 . 1	Sodium bromide reacts with concentrated sulfuric acid in a different way from sodium chloride.
	Write an equation for this reaction of sodium bromide and explain why bromide ions
	react differently from chloride ions. [3 marks]
	Equation
	Explanation
	Explanation
0 5 . 2	A colourless solution contains a mixture of sodium chloride and sodium bromide.
	Using aqueous silver nitrate and any other reagents of your choice, develop a
	procedure to prepare a pure sample of silver bromide from this mixture. Explain each step in the procedure and illustrate your explanations with equations,
	where appropriate. [6 marks]
	[o marks]

0 5 . 3	Write an ionic equation for the reaction between chlorine and cold dilute sodium hydroxide solution. Give the oxidation state of chlorine in each of the chlorine-containing ions formed. [2 marks]
	Turn over for the next question

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