Question 30 (12 marks)

Write a balanced ionic equation for any reactions occurring between the following substances and state any observations before and after mixing.

If there is no reaction, write 'no reaction' for the equation and if there is no change observed write 'no visible reaction'. Use the colours stated in the Data booklet if required.

A piece of iron wool is added to a 0.1 mol L ⁻¹ solution of copper(II) sulfate.	(4 marks)
Equation	
Observations	
Calcium hydrogencarbonate powder is added to excess 1 mol L⁻¹ nitric acid.	(4 marks)
Equation	

Observation	ns .	
Excess chlo	orine gas is bubbled through a 0.1 mol L⁻¹ sodium bromide solution	n. (4 mar
Equation		
Observation	ne	