Question 26	(9 marks)
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Dilute hydrochloric acid, HCl(aq), is added to three labelled test tubes.

- (I) Excess copper metal, Cu(s), is added to the first test tube.
- (II) Excess copper(II) oxide, CuO(s), is added to the second test tube.
- (III) Excess copper(II) carbonate, CuCO₃(s), is added to the third test tube.
- (a) Describe the contents of the first and second test tubes once **any** reactions are complete. (4 marks)

Test Tube	Description
(1)	
(II)	

(b)	Write the balanced equation, with appropriate state symbols, for the rea	ction that takes
	place between the copper(II) oxide and the hydrochloric acid.	(3 marks)

(c)	If the labels of test tubes (II) and (III) became smudged, describe all the observations that could be used to distinguish between these test tubes once any reactions are complete. (2 marks)