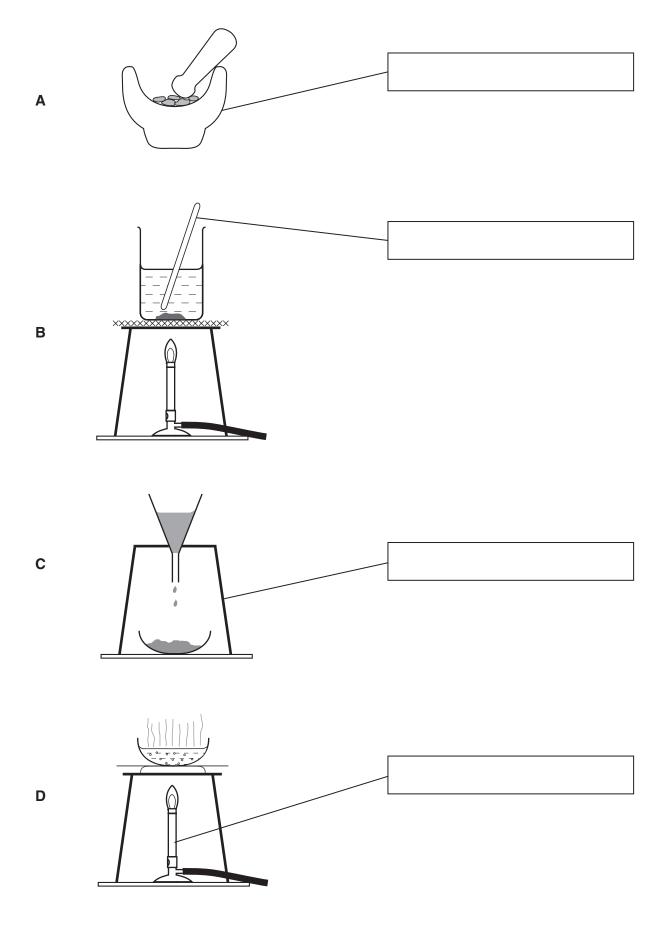
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## **Experimental Techniques** Question Paper 3

Level	IGCSE
Subject	Chemistry
Exam Board	CIE
Торіс	Experimental Techniques
Sub-Topic	
Paper Type	Alternative to Practical
Booklet	Question Paper 3

Time Allowed:	45 minutes	
Score:	/37	
Percentage:	/100	

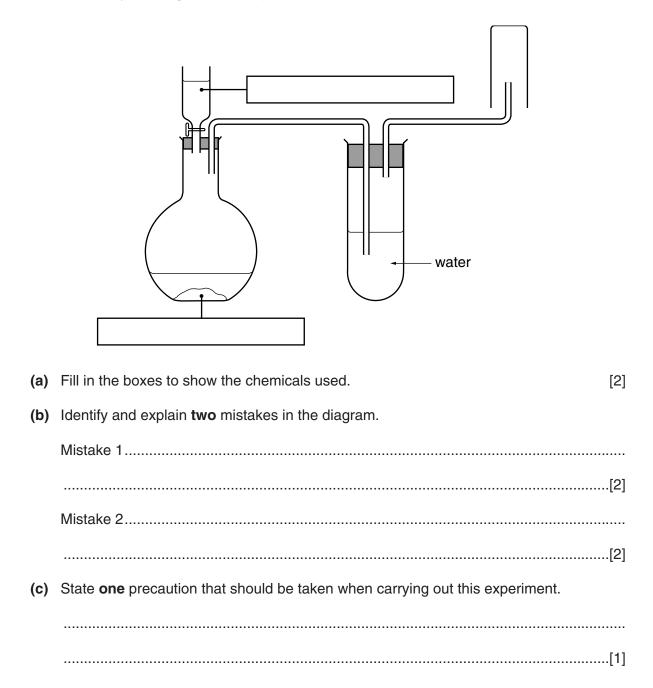
**1** Look at the diagrams of common laboratory apparatus.



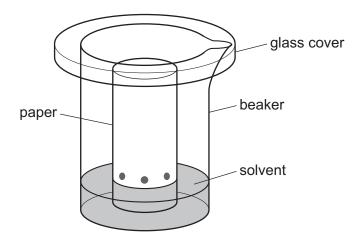
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(a)	Complete the empty boxes to identify the pieces of apparatus labelled.	[4]
(b)	What name is given to the separation method in <b>C</b> ?	
		.[1]
(c)	Which apparatus would be most suitable to obtain crystals from an aqueous solution copper(II) sulphate?	ı of
		.[1]

2 Hydrogen chloride gas is strong-smelling, denser than air and soluble in water. A sample of hydrogen chloride gas can be prepared by adding concentrated sulphuric acid to sodium chloride. Study the diagram of the apparatus used.

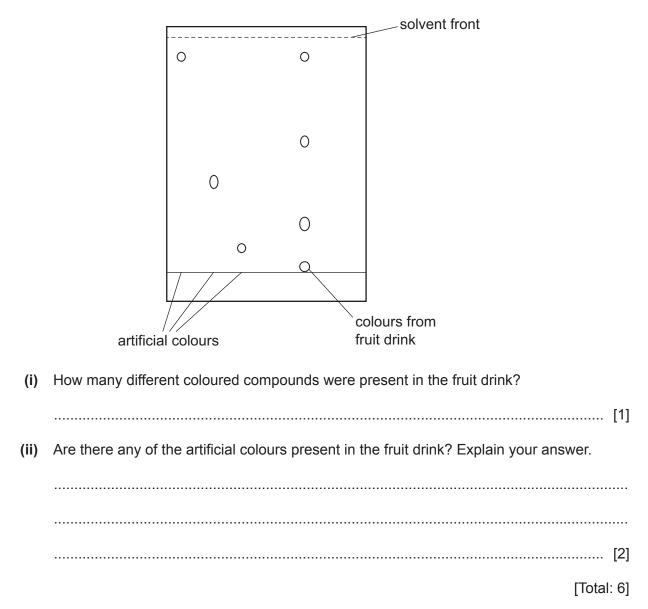


**3** A student investigated the colours present in a fruit drink. The fruit drink was tested to check that no artificial colours had been added. The apparatus below was used.

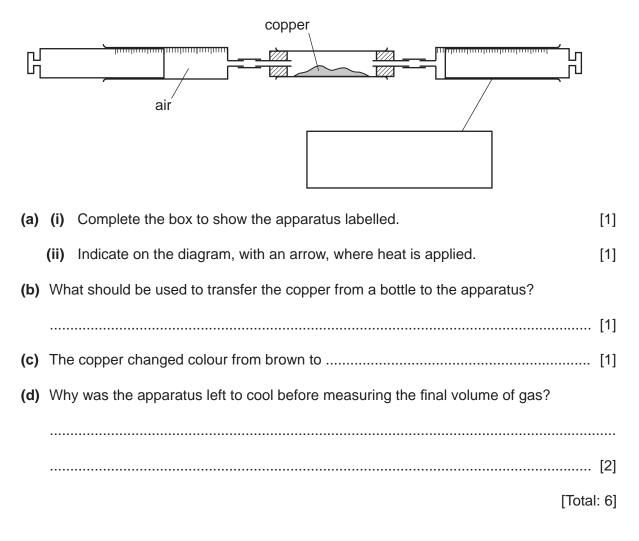


(a)		Name the method used.	
			[1]
	(ii)	Why is there a glass cover on the beaker?	
			[1]
(b)	Wh	en should the paper be removed from the beaker?	
			[1]

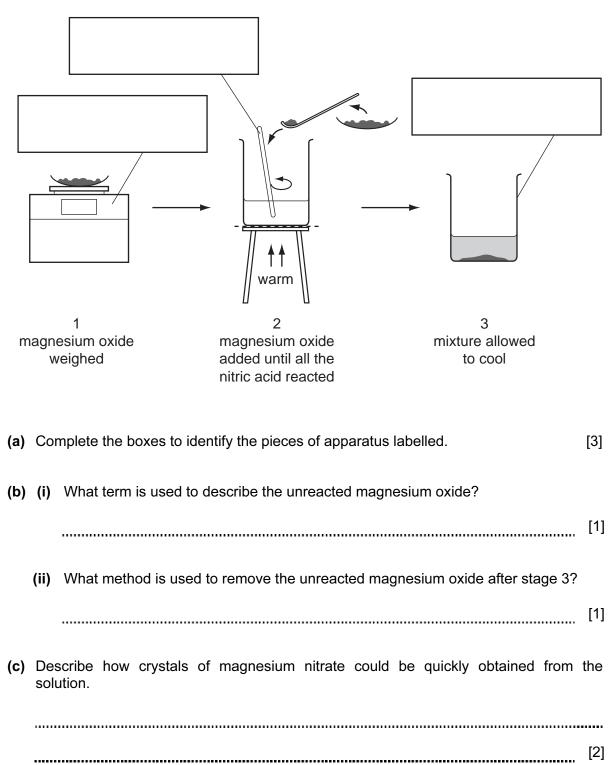
(c) The diagram shows the results of the experiment.



4 A student investigated the reaction of air with copper. 100 cm<sup>3</sup> of air was passed continuously over heated copper using the apparatus below. When the volume remained constant, the apparatus was left to cool and the volume of gas was measured.



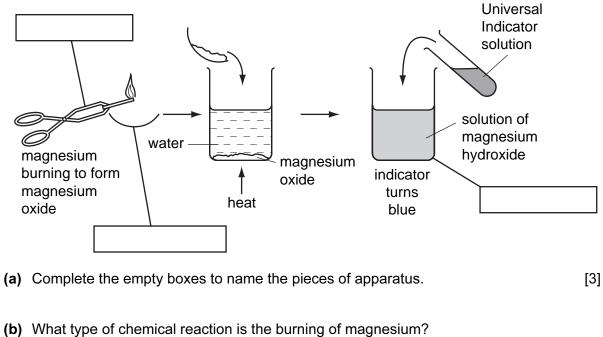
5 A student reacted nitric acid with magnesium oxide to prepare magnesium nitrate. The diagram shows the procedure followed in three stages.



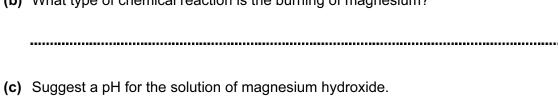
[Total: 7]

[1]

[1]



6 The diagram shows the formation of a solution of magnesium hydroxide from magnesium.



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