Experimental Techniques

Mark Scheme 3

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

Time Allowed: 45 minutes

Score: /37

Percentage: /100

1	(a)	A = mortar (1) B = stirrer/stirring rod (1) C = tripod (1) D = Bunsen Burner (1)	not thermometer	[4]
	(b)	filtration		[1]
	(c)	D or description		[1]

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3	(a	(i)	chromatography (1)	[1]
		(ii)	to prevent loss / evaporation of solvent (1)	[1]
	(b)		en the solvent is near the top of the paper / before the solvent reaches the top of the per (1)	[1]
	(c)	(i) 4	l (1)	[1]
	(ves, one artificial dye (1) at same height / matches (1)	[2]
4	(a	(i)	(gas) syringe (1)	[1]
7	ųα	(ii)	arrow indication under copper (1)	
		(11)	arrow indication under copper (1)	[1]
	(b)	spa	itula (1)	[1]
	(c)	bla	ck (1)	[1]
	(d)		eturn to room/initial temperature (1) rect volume of gas (1)	[2]
5	(a)		ance (1) stirring/(glass) rod/stirrer (1) not thermometer aker (1)	[3]
	(b)) (i)	excess (1) not residue	[1]
		(ii)	filtration/decant (1) not sieve/strain/centrifuge	[1]
	(c)) he	at/evaporate (1) to crystallising point or description e.g. using glass rod (1)	[2]

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6 (a)	Boxes filled in correctly to show	
	tongs(1)	
	watch glass/evaporating basin/dish(1)	
	beaker(1)	[3]
(b)	oxidation/combustion/exothermic/redox(1)	[1]
(c)	> 7(1)	[1]