UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May / June 2012 question paper for the guidance of teachers

0620 CHEMISTRY

0620 / 51

Paper 5 (Practical), maximum raw mark 40

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May / June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Pa	ge 2	Mark Scheme: Teachers' version	Syllabus	Paper	
		IGCSE – May/June 2012	0620	51	
(a)	Table of results				
	volume of aqueous potassium chloride boxes completed correctly (1)				
	1,2,4,5, 6 and 7 heights of solid boxes completed (1) in mm (1)				
	ascen	ding order / last 2 level out (1)		[4]	
(b)	all points correctly plotted including origin (2), -1 for any incorrect				
(-)	appro	oriate scale for y axis(at least half of grid) (1)		[4]	
	best ii	t straight line graph drawn with a ruler(1)		[4]	
(c)	value	from graph (1) unit (1) shown clearly (1)		[3]	
. ,					
(d)	precip	itation / double decomposition (1)		[1]	
, ,		(1)			
(e)	height	increases(1) levels off (1)		[2]	
(f)	same	heights owtte (1)			
``		d nitrate reacted / / reaction finished / excess potassion	um chloride (1)	[2]	
	J 10 J.	F	(.,	[-]	
(g)	yellow	precipitate / solid (1)		[1]	
(h)	improvement (1)				
	e.g. use burette or pipette / leave solid to settle longer / repeat /				
	wider range of volumes for KCl explanation (1)				
		stead of a measuring cylinder / heights more accurate	e / take average /		
	more	reliable / accurate		[2]	
(a)	white	(1)		[1]	
` ,		` <i>'</i>		[.,]	
(D)	S	ondensation / drops of liquid / water / steam (1) blid is still white no (colour) change (1)		[2]	
	fiz	zzes / effervescence (1) lighted splint extinguished / ov	wtte (1)	[2]	
	` '	zz / bubbles / effervescence (1) limewater(1) ilky / cloudy / white precipitate (1)		[3]	
				[0]	
		fervescence / fizz / bubbles (1) arkens / turns black / green (1) ignore: blue		[2]	
	(iv) d	escription of smell of ammonia / sublimate (1)			
		H paper turns blue / green or pH > 7 (1) allow : litmus	goes blue	[2]	

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	IGCSE – May/June 2012	0620	51
` '	emperature recorded (1) °C (1) mperature recorded and lower (1) (1)		[3] [1]
(d) carbor	dioxide (1)		[1]
(e) ammo	ia (1) not : ammonium		[1]
(f) endoth	ermic (1)		[1]
	encarbonate / carbonate (1) alkaline (1) not : sodium	hydroxide	[2]

Syllabus

Paper

Mark Scheme: Teachers' version

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