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

0620/61

Paper 6 (Alternative to Practical), maximum raw mark 60

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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2012	0620	61
1	(a)	tripod (1)		[2]	
	(b)	fizz/bubb solid/iror		[2]	
	(c)	evaporat colour ch	d (1)	[0]	
		ellector	heat on solid solid breaks down (1) max 3		[3] [Total: 7]
2	(a)	methano ethanol propanol butanol	26 39 13		[4]
	(b)		otted correctly ±1/2 small square (3) ine drawn with a ruler (1)		[4]
	(c)		m graph (1) unit (1) 44°C ation shown on grid (1)		[3]
	(d)	-	ture rises would be greater/faster/quicker (1) s a good conductor (1)		[2]
					[Total: 13]
3	(a)	pestle (1) mortar (1)		[2]
	(b)	stir/mix/s	hake (1) allow: heat/boil		[1]
	(c)		showing funnel (1) n of filter paper (1) note: labels not necessary		[2]
	(d)	to crysta	poration (1) Ilising point or description (1) cupboard (1) max 2		[2]
	(e)	melting p	point/description of (1) allow : chromatography ignor	e : bp	[1] [Total: 8]
					[]

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	Page 3		Mark Scheme: Teachers' version Syllabus				us	Paper				
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4	 (a) Table of results ignore: units in table volume of aqueous potassium chloride boxes completed correctly (1) 1, 2, 4. 5 heights of solid boxes completed ±1mm (2) 4, 8, 16, 20, 24, 24 in mm (1) 									, 6, 7 [4]		
	(b)	 all points correctly plotted (2), -1 for any incorrect straight line graphs (2) note: one for each line, doesn't have to go through orig 									ugh orig	in [4]
	(c)	;) value from graph 14 (1) unit (1) shown clearly (1)									[3]	
		(d)	prec	ipitatio	n (1) allc	w : doub	le decom	position i	gnore: ex	o/endother	mic	[1]
	(e)	 (e) (i) same (1) no ecf not: almost the same all lead nitrate reacted/reaction finished/lead nitrate is limiting factor (1) 							or (1)	[2]		
	 (ii) same heights/owtte (1) lead nitrate is limiting factor/same amount of lead nitrate/excess potassium 									n chloride (1) [2]		
	(g)	yello	ow (p	orecipita	ate) (1)							[1]
	(h)			•	, .					longer/rep more accu		e average [2] [Total: 19]
5	(c)					ice (1) lin I) cond :		· /				[3]
	(e)	amr	nonia	a (1)								[1]
	(f)				netal (1) t or carb	onate) (2) not : a	mmonia				max [2] [Total: 6]
6	steel nail(s) in test-tube/suitable glass container (1) x cm ³ (1) water (1) no water = max 3 known volume of inhibitor added (1) observe effect after suitable time (1) note: minimum time = 1 day repeat using other inhibitors (1) observe/comparison of results (1)								[7]			
												[Total: 7]