UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/62

Paper 62 (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.

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

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0620	62
1	(a)	Bunsen	(burner) (1) tripod (1) condenser (1)		[3]
	(b)	(i) F (1)) allow description		
		(ii) G (1) allow description		[2]
2	(a)	pestle ar	nd/or mortar (1) accept diagram not bowl/crushe	r	[1]
	(b)	pour off/o	out liquid owtte (1) not separate/filter		[1]
	(c)	apply sol use of (n conclusio all marks	ography/chromatogram (1) lution to paper (1) named) solvent (1) not water on/results/spots at different levels (1) s can be scored from a labelled diagram paper in green solution = max 2		[4]
3	(a)	volumes	completed correctly 6, 41, 45, 46 –1 for each incorrect		[3]
	(b)	points plo smooth o	otted correctly including origin (3) –1 for each inc curve (1)	correct	[4]
	(c)		2 minutes (1) e owtte (1)		[2]
	(d)	steeper o	curve (1) levels out at same volume (1)		[2]

	Page 3			Mark Scheme: Teachers' version	Syllabus	Paper
				IGCSE – May/June 2010	0620	62
4	(a)	Tabl temp 23	correct	[2]		
	(b)	 Table of results for Experiment 2 temperature boxes completed correctly (2), -1 for each incorrect 23 33 35 33 31 29 27 				[2]
	(c)	 all points correctly plotted (3), -1 for any incorrect smooth line graphs (2) or two intersecting straight lines labels (1) 				[6]
	(d)) value from graph ± 1 small square (1) shown clearly (1)				[2]
	(e)	(i)	expe	riment 2 (1)		[1]
				D more concentrated (1)		
				iger (1) e collisions (1)		max [2]
	(f)			t/remove acid C owtte (1)		[1]
				perature or initial temperature from table (1) finished owtte (1)		[2]
5	Tes	sts on				
	(c)			e (1) precipitate (1) nange with excess/insoluble (1)		[3]
		(ii)	no re	eaction/thin/slight precipitate (1)		[1]
	(d)	cont	ains v	water/hydrated (1)		[1]
	(e)	not a	a sulfa	ate (1) accept not a carbonate		[1]
	(f)	amn	nonia	(1) not ammonium		[1]
	(g)	not a	rated a sulf) salt (1) fate (1) bonate (1) max [2]		[2]

	Page 4	Mark Scheme: Teachers' version	Syllabus	Paper		
		IGCSE – May/June 2010	0620	62		
6	(a) electrolysis (1)			[1]		
	(b) platinum	/graphite/carbon (1)		[1]		
	(c) (blue) litmus/universal indicator paper/pH paper (1) bleaches/turns white (1)					
	(d) hydrogei	n (1)		[1]		
7	add (named) heat (1) for specified/ observe reac repeat with o compare met no reagents =		[6]			
	or heat metal repeat with o method for m	[3]				
				[Total: 60]		