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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.

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CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

			IGCSE – May/June 2010	0620	200
1	(a)	Bunsen ((burner) (1) tripod (1) condenser (1)		QaC ambride
	(b)	(i) F (1)) allow description		18
		(ii) G (1) allow description		[2]
2	(a)	pestle an	nd/or mortar (1) accept diagram not bowl/crushe	er	[1]
	(b)	pour off/o	out liquid owtte (1) not separate/filter		[1]
	(c)	apply sol use of (n conclusion all marks	ography/chromatogram (1) lution to paper (1) amed) 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)		completed correctly , 41, 45, 46 —1 for each incorrect		[3]

Syllabus

[4]

[2]

[2]

Mark Scheme: Teachers' version

(b) points plotted correctly including origin (3) -1 for each incorrect

(d) steeper curve (1) levels out at same volume (1)

smooth curve (1)

(c) point at 2 minutes (1) off curve owtte (1)

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Page 3	Mark Scheme: Teachers' version	Syllabus	.03
	IGCSE – May/June 2010	0620	700

ten	ble of results for Experiment 1 nperature boxes completed correctly (2), –1 for each incorrect 25 27 26 25 24 23	Cambridge			
ten	ble of results for Experiment 2 nperature boxes completed correctly (2), –1 for each incorrect 33 35 33 31 29 27	[2]			
sm	points correctly plotted (3), –1 for any incorrect nooth line graphs (2) or two intersecting straight lines pels (1)	[6]			
(d) val	ue from graph ±1 small square (1) shown clearly (1)	[2]			
(e) (i)	experiment 2 (1)	[1]			
(ii)	acid D more concentrated (1) stronger (1) more collisions (1)	max [2]			
roc	clean it/remove acid C owtte (1) om temperature or initial temperature from table (1) action finished owtte (1)	[1] [2]			
Tests on solid E					
(c) (i)	white (1) precipitate (1) no change with excess/insoluble (1)	[3]			
(ii)	no reaction/thin/slight precipitate (1)	[1]			
(d) cor	ntains water/hydrated (1)	[1]			
(e) not	t a sulfate (1) accept not a carbonate	[1]			
(f) am	nmonia (1) not ammonium	[1]			
hyd not	rate (1) drated salt (1) t a sulfate (1) t a carbonate (1) max [2]	[2]			

	Page 4	Mark Scheme: Teachers' version	Syllabus
		IGCSE – May/June 2010	0620
6	(a) electroly	sis (1)	Syllabus 0620
	(b) platinum	/graphite/carbon (1)	198
		mus/universal indicator paper/pH paper (1) s/turns white (1)	[2]
	(d) hydrogei	n (1)	[1]
7	add (named) acid/water/salty water to piece of copper/steel (1) heat (1) for specified/same time (1) observe reaction/effect (1) repeat with other metal (1) compare metals (1) no reagents = 0 marks		[6]
		l (1) ther metal (1) neasuring conductivity (1) max [3]	[3]

[Total: 60]