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

0620/63

Paper 63 (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.

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.

	raye z		Mark Scheme. Teachers Version	Syllabus	rapei
			IGCSE – May/June 2010	0620	63
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/crusher		[1]
	(b)	pour off/o	out liquid owtte (1) not separate/filter		[1]
	(c)	apply soluse of (n	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		
		dipping p	paper in green solution = max 2		[4]
3	(a)		completed correctly 5, 41, 45, 46 -1 for each incorrect		[3]
	(b)	points plo smooth o	otted correctly including origin (3) -1 for each incocurve (1)	rrect	[4]
	(c)	-	2 minutes (1) e owtte (1)		[2]
	(d)	steeper o	curve (1) levels out at same volume (1)		[2]

Mark Scheme: Teachers' version

Syllabus

Paper

Page 2

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0620	63
4	(a) Table of results for Experiment 1 temperature boxes completed correctly (2), -1 for each incorrect 23 25 27 26 25 24 23				[2]
	(b)	tempera	f results for Experiment 2 hture boxes completed correctly (2), –1 for each inco 35 33 31 29 27	rrect	[2]
	(c)		s correctly plotted (3), –1 for any incorrect line graphs (2) or two intersecting straight lines		[6]
	(d)	value fro	om graph ±1 small square (1) shown clearly (1)		[2]
	(e)	(i) exp	eriment 2 (1)		[1]
		stro	d D more concentrated (1) onger (1) re collisions (1)		max [2]
	(f)	room te	it/remove acid C owtte (1) mperature or initial temperature from table (1) finished owtte (1)		[1] [2]
5	Tes	sts on sol			
	(c)		te (1) precipitate (1) change with excess/insoluble (1)		[3]
		(ii) no i	reaction/thin/slight precipitate (1)		[1]
	(d)	contains	s water/hydrated (1)		[1]
	(e)	not a su	Ifate (1) accept not a carbonate		[1]
	(f)	ammoni	a (1) not ammonium		[1]
	(g)	not a su	d salt (1)		[2]

	Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2010	0620	63
6	(a) electrolys	[1]		
	(b) platinum	/graphite/carbon (1)		[1]
		mus/universal indicator paper/pH paper (1) s/turns white (1)		[2]
	(d) hydroger	ר) ו		[1]
7	heat (1) for specified/s observe reac repeat with o compare met	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		
		(1) ther metal (1) leasuring conductivity (1) max [3]		[3]

[Total: 60]