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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	Page	e 2	Marl	Scheme: Tea	chers' version		Syllabus	Paper	
				IGCSE – May/	June 2010		0620	62	
1	(a) B	Bunsen ((burner) (1)	tripod (1) con	denser (1)			[3]	
	(b) (i	i) F(1)) allow descr	iption					
	(ii	i) G (1) allow descr	iption				[2]	
2	(a) p	estle an	ıd/or mortar ((1) accept diag	ram not bowl/c	rusher		[1]	
	(b) p	our off/c	out liquid ow	te (1) not sepa	rate/filter			[1]	
	(c) c a u c a d	hromato apply sol ise of (n conclusio all marks lipping p	ography/chro lution to pape amed) solve on/results/sp can be scor oaper in gree	matogram (1) er (1) nt (1) not wate ots at different red from a labe n solution = ma	er levels (1) lled diagram ax 2			[4]	
3	(a) v 0	olumes), 20, 26	completed c , 41, 45, 46	orrectly –1 for each in	correct			[3]	
	(b) p s	ooints plo mooth c	otted correct curve (1)	ly including orio	gin (3) –1 for ea	ach incor	rect	[4]	
	(c) p o	ooint at 2 off curve	2 minutes (1) owtte (1)					[2]	
	(d) s	steeper o	curve (1) leve	els out at same	volume (1)			[2]	

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Page 3		ige 3	Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – May/June 2010	0620	62		
4	(a)	Table of tempera 23 25	f results for Experiment 1 ature boxes completed correctly (2), –1 for each ir 27 26 25 24 23	ncorrect	[2]		
	(b)	Table of tempera 23 33	f results for Experiment 2 ature boxes completed correctly (2), –1 for each ir 35 33 31 29 27	ncorrect	[2]		
	(c)	all point smooth labels (1	ts correctly plotted (3), –1 for any incorrect line graphs (2) or two intersecting straight lines 1)		[6]		
	(d)	value fro	om graph ± 1 small square (1) shown clearly (1)		[2]		
	(e)	(i) exp	periment 2 (1)		[1]		
		(ii) acio stro mo	d D more concentrated (1) onger (1) re collisions (1)		max [2]		
	(f)	to clean room te reaction	n it/remove acid C owtte (1) Imperature or initial temperature from table (1) In finished owtte (1)		[1] [2]		
5	Tes	sts on sol	lid E				
	(c)	(i) whi no	ite (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	Ilfate (1) accept not a carbonate		[1]		
	(f)	ammon	ia (1) not ammonium		[1]		
	(g)	nitrate (hydrate not a su not a ca	1) d salt (1) Ilfate (1) arbonate (1) max [2]		[2]		

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	Page 4	Mark Scheme: Teachers' version	Syllabus	Paper		
		IGCSE – May/June 2010	0620	62		
6	(a) electroly	sis (1)		[1]		
	(b) platinum	[1]				
	(c) (blue) litr bleaches	[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					
	or heat meta repeat with o method for m		[3] [Total: 60]			