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.

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.

L	raye z		Mark Scheme. Teachers Version	Syllabus	Fapei
			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/crusher		[1]
	(b)	pour off/o	out liquid owtte (1) not separate/filter		[1]
	(c)	apply soluse of (n conclusional) 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 oaper in green solution = max 2		[4]
3	(a)		completed correctly , 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) 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			Syllabus	Paper		
		IGCSE – May/June 2010	0620	62		
(a)	temp	le of results for Experiment 1 perature boxes completed correctly (2), –1 for each incorrect 25 27 26 25 24 23	:t	[2]		
(b)	Table temp 23	rt	[2]			
(c)	smo	points correctly plotted (3), -1 for any incorrect poth line graphs (2) or two intersecting straight lines els (1)		[6]		
(d)	value	ne from graph ±1 small square (1) shown clearly (1)		[2]		
(e)	(i)	experiment 2 (1)		[1]		
	;	acid D more concentrated (1) stronger (1) more collisions (1)		max [2]		
(f)	room	lean it/remove acid C owtte (1) m temperature or initial temperature from table (1) ction finished owtte (1)		[1] [2]		
Tes	sts on solid E					
(c)		white (1) precipitate (1) no change with excess/insoluble (1)		[3]		
	(ii)	no reaction/thin/slight precipitate (1)		[1]		
(d)	conta	tains water/hydrated (1)		[1]		
(e)	not a	a sulfate (1) accept not a carbonate		[1]		
(f)	amm	monia (1) not ammonium		[1]		
(g)	hydra not a	ate (1) rated salt (1) a sulfate (1) a carbonate (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	(a) electrolysis (1)				
	(b) platinum	/graphite/carbon (1)		[1]		
		mus/universal indicator paper/pH paper (1) s/turns white (1)		[2]		
	(d) hydrogei	n (1)		[1]		
7	add (named) heat (1) for specified/ observe reac repeat with o compare met no reagents:	[6]				
		(1) ther metal (1) leasuring conductivity (1) max [3]		[3]		

[Total: 60]