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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

0620/63

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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			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	1) allow description		[2]
2	(a)	pestle an	nd/or mortar (1) accept diagram not bowl/crus	sher	[1]
	(b)	pour off/o	out liquid owtte (1) not separate/filter		[1]
	(c)	apply sol use of (n conclusion	cography/chromatogram (1) colution to paper (1) named) solvent (1) not water con/results/spots at different levels (1) s can be scored from a labelled diagram		
			paper in green solution = max 2		[4]
3	(a)		s completed correctly 6, 41, 45, 46 —1 for each incorrect		[3]
	(b)		lotted correctly including origin (3) -1 for each curve (1)	n incorrect	[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	63			
(a)	temperat	results for Experiment 1 ture boxes completed correctly (2), –1 for each inco 27 26 25 24 23	rrect	[2]			
(b)	temperat	results for Experiment 2 ture boxes completed correctly (2), –1 for each inco 35 33 31 29 27	rrect	[2]			
(c)		correctly plotted (3), –1 for any incorrect ine graphs (2) or two intersecting straight lines		[6]			
(d)	value fro	m graph ±1 small square (1) shown clearly (1)		[2]			
(e)	(i) expe	eriment 2 (1)		[1]			
	stror	D more concentrated (1) nger (1) e collisions (1)		max [2]			
(f)	room ten	it/remove acid C owtte (1) nperature or initial temperature from table (1) finished owtte (1)		[1] [2]			
Tes	Tests on solid E						
(c)	` '	e (1) precipitate (1) hange with excess/insoluble (1)		[3]			
	(ii) no re	eaction/thin/slight precipitate (1)		[1]			
(d)	contains	water/hydrated (1)		[1]			
(e)	not a sul	fate (1) accept not a carbonate		[1]			
(f)	ammonia	a (1) not ammonium		[1]			
(g)	nitrate (1 hydrated not a sul not a car	salt (1)		[2]			

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	Page 4	Mark Scheme: Teachers' version	Syllabus	Paper		
		IGCSE – May/June 2010	0620	63		
6	(a) electroly	(a) electrolysis (1)				
	(b) platinum	/graphite/carbon (1)		[1]		
	(c) (blue) litr bleaches	[2]				
	(d) hydroger	າ (1)		[1]		
7	add (named) heat (1) for specified/observe reac repeat with o compare met no reagents:		[6]			
		(1) ther metal (1) neasuring conductivity (1) max [3]		[3]		

[Total: 60]