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.



	Page 2		Mark Scheme: Teachers' version		,	Syllabus	Paper		
				IGCSE	E – May/Jun	e 2010		0620	63
1	(a)	Bunsen ((burner)	1) tripod	(1) conden	ser (1)			[3]
	(b)	(i) F (1)) allow de	escription					
		(ii) G (1	l) allow d	escription					[2]
2	(a)	pestle an	nd/or mor	tar (1) acc	ept diagram	not bowl/cru	sher		[1]
	(b)	pour off/o	out liquid	owtte (1)	not separate	/filter			[1]
	(c)	apply sol use of (n conclusion	olution to planed) so on/results	olvent (1) s/spots at o	not water different leve				
					m a labelled tion = max 2	ulagram			[4]
3	(a)			ed correctly 46 –1 for	y each incorre	ect			[3]
	(b)	points plo smooth o		rectly inclu	ding origin (3) -1 for eac	h incorrect		[4]
	(c)	point at 2 off curve	2 minutes e owtte (1	` '					[2]
	(d)	steeper o	curve (1)	levels out	at same volu	ume (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	[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 read repeat with o compare met no reagents:	[6]		
		l (1) ther metal (1) neasuring conductivity (1) max [3]		[3]

[Total: 60]