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

0620/51

Paper 51 (Practical), maximum raw mark 40

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.



	Ра	ge 2	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0620	51
1	volu	olume for indicator to change colour completed Expt 1 5–10 cm 3 ±5			
	Tab	ole of resu	ults for Experiment 1		
	initi othe con	[3]			
	volu	ume for in	dicator to change colour completed Expt 2 15–20 cn	n ³ ±5	[1]
	Tab				
	initi othe con	[3]			
	(a)		s correctly plotted (3), –1 for any incorrect line graphs or two intersecting straight lines (2))		[6]
	(b)		om graph (1) learly (1)		[2]
	(c)	pink to c	olourless not clear		[1]
	(d)	(i) exp	eriment 1		[1]
			C more concentrated (1)		
			nger (1) e collisions (1) max [2]		[2]
	(e)		nperature or initial temperature from table (1) finished owtte (1)		[2]
2	Tests on solid E				
	(a)	white/co	lourless (solid)		[1]
	(b)	рН раре	rns into a liquid/drops of liquid at top of test-tube/stea er turns red/pH 1–4 (1) ellow gas (1) max [2]	am (1)	[2]
	(c)	•	e (1) cipitate (1) excess dissolves/clears (1)		[3]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2010	0620	51
(ii) whi	te precipitate (1)		
	bluble/does not dissolve/no change (1)		[2]
(iii) pH	<u>1–4</u> (1) eaction owtte (1)		[2]
			[—]
• •	rvescence/fizz/bubbles (1)		[2]
рп	paper blue/purple/dark green (1)		[2]
			
(d) acid (1) not a su	lfate (1)		[2]
nora co			[—]
(e) ammon	a (1)		[1]
			[']
(f) oluminiu	um (1)		
(f) aluminiu nitrate (
	salt/contains water (1)		[3]
			[Total: 40]