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.

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	Page	2	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0620	51
1	volum	e for in	dicator to change colour completed Expt 1 5–10 cm	³ ±5	[1]
	Table	of resu	Ilts for Experiment 1		
		•	ature box completed correctly (1)		
			ature boxes correctly completed (1) i.e. increasing the supervisors (1)	nen decreasing	[3]
	volum	e for in	dicator to change colour completed Expt 2 15–20 cr	m ³ ±5	[1]
	Table	of resu	Ilts for Experiment 2		
	other	temper	ature box completed correctly (1) ature boxes correctly completed (1) i.e. increasing the to supervisors (1)	nen decreasing	[3]
	SI		s correctly plotted (3), –1 for any incorrect line graphs or two intersecting straight lines (2))		[6]
	• •		om graph (1) learly (1)		[2]
	(c) pi	ink to c	olourless not clear		[1]
	(d) (i) expe	eriment 1		[1]
	(i		C more concentrated (1)		
			nger (1) e collisions (1) max [2]		[2]
			nperature or initial temperature from table (1) finished owtte (1)		[2]
2	Tests	on soli	d E		
	(a) w	hite/co	lourless (solid)		[1]
	p	Н 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]

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Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2010	0620	51
	\sim provinitate (1)		
• •	e precipitate (1) uble/does not dissolve/no change (1)		
11501	uble/does not dissolve/no change (1)		
(iii) pH <u>1</u>	-4 (1)		
	action owtte (1)		
• •	vescence/fizz/bubbles (1)		
рН р	aper blue/purple/dark green (1)		
(d) acid (1)			
not a sulf	ate (1)		
(e) ammonia	(1)		
(f) aluminiur	n (1)		
nitrate (1			
hydrated	salt/contains water (1)		
			IT a factor of
			[Total: 4