UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2009 question paper

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for the guidance of teachers

0620 CHEMISTRY

0620/05

Paper 5 (Practical Test), 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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UNIVERSITY of CAMBRIDGE International Examinations

	Page 2				Syllabus				
			IC	GCSE – October	r/November 2009	0620	05		
1	observations bubbles/fizz/tube feels hot/magnesium dissolves				ssolves	[1]			
	lighted	lighted splint (1) pops (1)							
	table of results initial boxes correctly completed (1) final boxes correctly completed (1)								
	comparable to supervisor's results (1) decreasing order (1)								
	(a) dif	fferenc	es correc	tly completed			[1]		
	 (b) all five bars correctly drawn (3), -1 for each incorrect labelled (1), if points plotted for graph = 1 								
	(c) (i) hydr	ogen				[1]		
	(ii	,		dox/displacemention/oxidation/rec			[1]		
	(d) (i) expe	eriment 1	A or from stude	ent's results ecf		[1]		
	(ii	(ii) sulfuric acid was the most concentrated/strongest							
	(e) (i) grea	ter/highe	r ignore rate			[1]		
	(ii) half	the value	or half the value	from the table/lower/dec	crease or less	[1]		
	(iii) more	e/larger v	olume of acid			[1]		
		-	-						
		(f) one error source from e.g. heat losses/use of measuring cylinders/magnesium pieces vary in mass/length					[1]		
2		lution lution lution	L	colourless colourless colourless (1)	for all three correct n	ot white/clear	[1]		
	P⊦ p⊦	l of sol l of sol	Is from si lution K lution L lution M	upervisor's result approx 8–12 approx 11–14 approx 0–3 (2)	ts –1 for any incorrect		[2]		

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper					
	IGCSE – October/November 2009	0620	05					
tests on solution K								
	precipitate (1) p/royal blue solution or precipitate dissolves (1)		[2]					
(ii) white	e (1) precipitate (1)		[2]					
(iii) no re	eaction/change/colourless solution		[1]					
tests on solu	ution L							
(d) (i) blue	precipitate (1)		[1]					
(ii) white	e precipitate (1) dissolves/clears (1)		[2]					
(iii) brow	vn (1)		[1]					
tests on solution M								
(e) white (1)	precipitate (1)		[2]					
(f) weak (1)	alkali/base (1) or ammonia (2)		[2]					
(g) strong (1) alkali/base/hydroxide (1) or sodium hydroxide (2)		[2]					
(h) chloride acid (1)	(1) not chlorine ion							
	chloric acid (2)		[2]					