## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2014 series

## 0620 CHEMISTRY

0620/51

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



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				IGCSE – May/June 2014	0620	51
1	initial an differenc		al and erenc	results for Experiment 1 d final volume boxes completed correctly (1) se box correctly completed (1) able to supervisors (1) ± 2 cm <sup>3</sup>		[3]
	(b)	initi diffe	al and erenc npara	results for Experiment 2 d final volume boxes completed correctly (1) se box correctly completed (1) able to supervisors (1) ± 2 cm <sup>3</sup> ngs to 1 dp (1)		[4]
	(c)	fizz	ing / l	bubbles, etc. (1)		[1]
	(d)	(i)	pink <b>not:</b>	(1) purple		
				olourless (1) clear		[2]
		(ii)	oran	nge / pink (1)		[1]
	(e)	(i)		ilis (1) bases		[1]
		(ii)	carb	oonate / carbon dioxide (1)		[1]
	(f)	(i)	diffe cm <sup>3</sup>	erence in expt 1 – difference in expt 2 (1) (1)		[2]
		(ii)	2 × 0	difference in expt 2 (1)		[1]
	(	(iii)		ater volume needed to react with <b>T</b> (1) <b>w</b> : ecf from <b>(i)</b> and <b>(ii)</b>		[1]
	(g)	(i)	$4 \times c$	difference value expt 1 (1) difference value expt 2 (1) times volume of solution <b>R</b> (1)		[3]
		(ii)	volu	me of acid used > 50 cm <sup>3</sup> / more than burette can h	old (1)	
				up two burettes / fill burette twice (1)  dance: reference to impurities (max 1)		[2]

1

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2	tests on solid <b>U</b>			

(a) pink (1) [2] powder / crystals (1) (b) drops / condensation (1) blackens / brown / dark solid (1) [2] (c) any five from: beige / (pale) brown (1) precipitate (1) fizzes / bubbles (1) glowing splint (1) relights (1) [5] black / darkens (1) (d) beige / (pale) brown precipitate (1) [1] (e) white (1) precipitate (1) [2] **(f)** no reaction / change / no precipitate (1) [1] [1] (g) not a chloride / halide (1) [1] **(h)** oxygen / O<sub>2</sub> (1) (i) any three from: sulfate (1) hydrated salt (1) transition metal (1)

[3]

catalyst (1)