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## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2013 series

## 0620 CHEMISTRY

0620/51

Paper 5 (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 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 October / November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2		ge 2	Mark Scheme	Syllabus Pa			
			IGCSE – October/November 2013	0620 5	1		
	(a)	table of results for Experiment 1 initial final and difference volume boxes completed correctly (1) readings to 1 decimal place (1) comparable to supervisors (1) ±2 cm					
	(b)	initial au differen	results for Experiment 2 and final boxes completed correctly (1) ce box completed correctly (1) able to supervisors (1) ±5 cm <sup>3</sup>		[3]		
	(c)	colourle	ess (1) pink / magenta (1)		[2]		
	(d)	neutrali	sation / acid-base (1)		[1]		
	(e)		me for Experiment 1 from table (1) cm <sup>3</sup> (1) I mark for double the volume		[2]		
	(f)		cts with (1) neutralises the acid (1) s sodium hydroxide needed (1)		max [2]		
			ume in <b>(e)</b> – volume added in Experiment 2 (1) e.g. 5 rect value (2) e.g. 33	0–17	[2]		
	(		imate based on <b>(ii)</b> answer to <b>(ii)</b> / 3 divided into 50 × <b>x</b> <b>x</b> : 1 mark for 0.45–0.6g	0.1 e.g. 0.5	[1]		
	(g)		ct (1) – reaction not affected by temperature / volumes / co	ncentrations the same (1	) [2]		
	(h)		re accurate (1) than a measuring cylinder (1) than a burette = 0		[2]		
		(ii) no	effect / advantage (1)	SS	[0]		

1

not measuring temperature changes / no temperature difference (1)

[2]

	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2013	0620	51
2	(a) colourless / pale yellow (liquid) not: clear			[1]	
	(b)		d turns yellow / red / brown (1) ) layers (1) top layer pink / purple (1)		[1] [2]
		(ii) two	layers / oil bubble (1) yellow (1)		[2]
	(c)	no reacti	on / change / precipitate (1)		[1]
	(d)	yellow (1	) precipitate (1)		[2]
	(e)	brown / v	white (1) precipitate (1)		[2]
	(f)	starch tu	) bubbles / fizz / effervescence (1) rns blue / black (1) k precipitate		[3]
	(g)	iodine dis	ssolves / soluble / diffuses / owtte (1) ets		[1]
	(h)		hydrocarbon (1) solvent (1) iscible (1)		max [2]
	(i)	iodide / r	not a sulfate (1) ne		[1]