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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0620 CHEMISTRY

0620/52

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		Mark Scheme	Syllabus	Paper				
		IGCSE – October/November 2013	0620	52				
(a)	initial readi	of results for Experiment 1 final and difference volume boxes completed correctly ngs to 1 decimal place (1) parable to supervisors (1) ±2cm	· (1)	[3]				
(b)	initial differ	of results for Experiment 2 and final boxes completed correctly (1) ence box completed correctly (1) parable to supervisors (1) ±5 cm ³		[3]				
(c)	colou	rless (1) pink / magenta (1)		[2]				
(d)	(d) neutralisation / acid-base (1) [1]							
(e) 2× volume for Experiment 1 from table (1) cm³ (1) [2] allow: 1 mark for double the volume								
(f)		eacts with (1) neutralises the acid (1) ess sodium hydroxide needed (1)		max [2]				
		volume in (e) – volume added in Experiment 2 (1) e.g. sorrect value (2) e.g. 33	50–17	[2]				
	• •	estimate based on (ii) answer to (ii) / 3 divided into 50 allow: 1 mark for 0.45–0.6g	× 0.1 e.g. 0.5	[1]				
(g)		fect (1) on – reaction not affected by temperature / volumes / co	oncentrations the same	(1) [2]				
(h)		nore accurate (1) than a measuring cylinder (1) not: more accurate than a burette = 0		[2]				
		no effect / advantage (1) not measuring temperature changes / no temperature c	lifference (1)	[2]				

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	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2013	0620	52
2	(a)	colourles not: clea	ss / pale yellow (liquid) ar		[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	ion / change / precipitate (1)		[1]
	(d)	yellow (1	I) precipitate (1)		[2]
	(e)	brown / v	white (1) precipitate (1)		[2]
	(f)	yellow (1 starch tu not : blac		[3]	
	(g)	iodine dis	ssolves / soluble / diffuses / owtte (1) cts		[1]
	(h)		hydrocarbon (1) solvent (1) iscible (1)		max [2]
	(i)	iodide / r	not a sulfate (1) ne		[1]