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				
initial fi reading	results for Experiment 1 nal and difference volume boxes completed correctly to 1 decimal place (1) table to supervisors (1) ±2 cm	(1)	[3]				
initial a differer	results for Experiment 2 nd final boxes completed correctly (1) nce box completed correctly (1) rable to supervisors (1) ±5 cm ³		[3]				
(c) colourle	ess (1) pink / magenta (1)		[2]				
(d) neutral	(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							
., .,	acts with (1) neutralises the acid (1) s sodium hydroxide needed (1)		max [2]				
	ume in (e) – volume added in Experiment 2 (1) e.g. 5 rect value (2) e.g. 33	50–17	[2]				
` <i>'</i>	imate based on (ii) answer to (ii) / 3 divided into 50 > ow : 1 mark for 0.45–0.6g	< 0.1 e.g. 0.5	[1]				
(g) no effe reason	ct (1) – reaction not affected by temperature / volumes / co	oncentrations the same	e (1) [2]				
	re accurate (1) than a measuring cylinder (1) t: more accurate than a burette = 0		[2]				
• •	effect / advantage (1) t measuring temperature changes / no temperature d	ifference (1)	[2]				

1

Page 3		ge 3	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2013	0620	52
2	(a)	colourles not: clea	ss / pale yellow (liquid) r		[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 not: read	ssolves / soluble / diffuses / owtte (1) ets		[1]
	(h)		hydrocarbon (1) solvent (1) iscible (1)		max [2]
	(i)	iodide / r not: iodir	not a sulfate (1) ne		[1]