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.



				IGCSE – October/November 2013	0620	52
1	(a)	initia read	al fina dings	esults for Experiment 1 al and difference volume boxes completed correctly to 1 decimal place (1) ble to supervisors (1) ±2cm	(1)	[3]
	(b)	initia diffe	al and erenc	esults for Experiment 2 d final boxes completed correctly (1) e box completed correctly (1) ble to supervisors (1) ±5 cm ³		[3]
	(c)	colo	urles	ss (1) pink / magenta (1)		[2]
	(d)	neut	tralis	ation / acid-base (1)		[1]
	(e)			ne for Experiment 1 from table (1) cm ³ (1) mark for double the volume		[2]
	(f)			ts with (1) neutralises the acid (1) sodium hydroxide needed (1)		max [2]
				me in (e) – volume added in Experiment 2 (1) e.g. 5 ect value (2) e.g. 33	50–17	[2]
	(nate based on (ii) answer to (ii) / 3 divided into 50 > w : 1 mark for 0.45–0.6g	< 0.1 e.g. 0.5	[1]
	(g)	no e		(1) reaction not affected by temperature / volumes / co	oncentrations the	same (1) [2]
	(h)			e accurate (1) than a measuring cylinder (1) more accurate than a burette = 0		[2]

Mark Scheme

Syllabus

Paper

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(ii) no effect / advantage (1) not measuring temperature changes / no temperature difference (1)

[2]

	Pa	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 di not: read	ssolves / soluble / diffuses / owtte (1) cts		[1]
	(h)		hydrocarbon (1) solvent (1) scible (1)		max [2]
	(i)	iodide / r	not a sulfate (1) ne		[1]