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.



			IGCSE – October/November 2013 06	20 51
1	. ,	initial f readin	of results for Experiment 1 inal and difference volume boxes completed correctly (1) gs to 1 decimal place (1) arable to supervisors (1) ±2cm	[3]
		initial a	of results for Experiment 2 and final boxes completed correctly (1) nce box completed correctly (1) arable to supervisors (1) ±5 cm ³	[3]
	(c)	colour	less (1) pink / magenta (1)	[2]
	(d)	neutra	lisation / acid-base (1)	[1]
			ume for Experiment 1 from table (1) cm ³ (1) 1 mark for double the volume	[2]
	(f)		acts with (1) neutralises the acid (1) ss sodium hydroxide needed (1)	max [2]
	(olume in (e) – volume added in Experiment 2 (1) e.g. 50–17 orrect value (2) e.g. 33	[2]
	(i		stimate based on (ii) answer to (ii) / 3 divided into 50 × 0.1 e.g. low : 1 mark for 0.45–0.6g	0.5 [1]
		no effe reasor	ect (1) n – reaction not affected by temperature / volumes / concentrat	ions the same (1) [2]

Mark Scheme

Syllabus

Paper

[2]

[2]

not measuring temperature changes / no temperature difference (1)

(h) (i) more accurate (1) than a measuring cylinder (1) not: more accurate than a burette = 0

(ii) no effect / advantage (1)

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Page 3		Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2013	0620	51
(a)	colourles not : clea	ss / pale yellow (liquid) ar		[1]
(b)	` '	id turns yellow / red / brown (1) b) 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	1) precipitate (1)		[2]
(e)	brown / v	white (1) precipitate (1)		[2]
(f)	starch tu	1) bubbles / fizz / effervescence (1) urns blue / black (1) ck precipitate		[3]
(g)	iodine di not : read	issolves / soluble / diffuses / owtte (1) cts		[1]
(h)		/ hydrocarbon (1) solvent (1) niscible (1)		max [2]
(i)	iodide / r not : iodi	not a sulfate (1) ine		[1]

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