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			Mark Scheme	Syllabus	Paper
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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 				[3]
	initia diffe	al and erence	esults for Experiment 2 I final boxes completed correctly (1) e box completed correctly (1) ble to supervisors (1) ±5 cm ³		[3]
	(c) colo	ourles	s (1) pink / magenta (1)		[2]
	(d) neut	tralisa	ation / acid-base (1)		[1]
			e for Experiment 1 from table (1) cm ³ (1) mark for double the volume		[2]
			s with (1) neutralises the acid (1) sodium hydroxide needed (1)		max [2]
			ne in (e) – volume added in Experiment 2 (1) e.g. 5 ect value (2) e.g. 33	0–17	[2]
	• •		nate based on (ii) answer to (ii) / 3 divided into 50 × v : 1 mark for 0.45–0.6g	: 0.1 e.g. 0.5	[1]
	(g) no e reas		(1) reaction not affected by temperature / volumes / co	ncentrations the sa	me (1) [2]
			e accurate (1) than a measuring cylinder (1) more accurate than a burette = 0		[2]
	• •		fect / advantage (1) neasuring temperature changes / no temperature d	ifference (1)	[2]

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2	(a)	colourles not : clea		[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	vhite (1) precipitate (1)		[2]
	(f)	starch tu) bubbles / fizz / effervescence (1) rns blue / black (1) k precipitate		[3]
	(g)	iodine dia not : read	ssolves / soluble / diffuses / owtte (1) cts		[1]
	(h)	-	hydrocarbon (1) solvent (1) iscible (1)		max [2]
	(i)	iodide / n not : iodir	not a sulfate (1) ne		[1]