

Www.xtrapapers.com MARK SCHEME for the October/November 2014 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 2014 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

® IGCSE is the registered trademark of Cambridge International Examinations.

PA CAMBRIDGE

Page 2	Mark Scheme Sy	ber ber
	Cambridge IGCSE – October/November 2014 062	1230
(a)	Table of results for Experiment 1 initial and final volumes and difference completed correctly (1) to 1 decimal place (1) comparable to supervisors (1) $\pm 2 \text{ cm}^3$	W. PapaCambrid
(b)		
	Initial and final volumes completed correctly (1) and difference (1)	
	comparable to supervisors (1) $\pm 2 \mathrm{cm}^3$	[3]
(c)	(i) yellow, not orange to pink / orange (1) not red	[1]
	(ii) as an indicator / to show end point (1)	
	ignore to see colour change	[1]
	iii) neutralisation (1)	[1]
(d)	(i) experiment 1 (1) allow: ecf from tables	[1]
	 (ii) quantitative comparison experiment 1 4X volume experiment 2/x cm³ more than (1) 	[1]
	 iii) solution B more concentrated/stronger (1) or converse explanation e.g. 4X as concentrated/less volume used (1) 	[2]
(e)	half value / half value from table result for experiment 2 (1) cm ³ (1)	[2]
(f)	advantage easy to use / quick / convenient (1)	
	disadvantage	
	not accurate (1)	[2]
(g)	same volume of each solution (1) add suitable named reactant (1) expected observation (1) comparison (1)	
	e.g. 10 cm ³ of each acid (1) add strip of magnesium/named carbonate (1) effervescence (1) more rapid bubbles means stronger acid (1)	[4]

Page 3		Mark Scheme Sy.	oer ber
		Cambridge IGCSE – October/November 2014 062	10ac
(a)	(i)	purple / black / violet (1) crystals (1)	annb.
	(ii)	drops / condensation at top of tube (1) colour change to green/grey (1) green on cooling (1)	Hana oer Hana Cambrida max L
(b)	(i)	green / grey (1) not white precipitate (1)	[2]
		dissolves / clears (1)	[1]
	(ii)	green / grey not white precipitate (1) insoluble (1)	[2]
(c)		e / green (1) glowing splint (1) relights / glows brighter (1) ervescence / bubbles (1)	max [3]
(d)	no	reaction / no precipitate / no change / colourless solution (1)	[1]
(e)	whi	ite (1) precipitate (1)	[2]
(f)		lrated/water (1) w transition metal	[1]
(g)		halide / chloride / iodide (1) sulfate (1) nsition metal / iron / chromium / catalyst (1)	[3]