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		aper
		IGCSE – October/November 2013	0620	52
1	initial fir reading	results for Experiment 1 nal and difference volume boxes completed correct s to 1 decimal place (1) able to supervisors (1) ±2 cm	ly (1)	[3]
	initial ar differen	results for Experiment 2 nd final boxes completed correctly (1) ce box completed correctly (1) able to supervisors (1) ±5 cm ³		[3]
	(c) colourle	ess (1) pink / magenta (1)		[2]
	(d) neutralis	sation / acid-base (1)		[1]
	• •	me for Experiment 1 from table (1) cm ³ (1) mark for double the volume		[2]
		cts with (1) neutralises the acid (1) s sodium hydroxide needed (1)		max [2]
	• •	ume in (e) – volume added in Experiment 2 (1) e.g. rect value (2) e.g. 33	50–17	[2]
		mate based on (ii) answer to (ii) / 3 divided into 50 ow: 1 mark for 0.45–0.6g	v 0.1 e.g. 0.5	[1]
	(g) no effect reason	et (1) – reaction not affected by temperature / volumes /	concentrations the same (1) [2]
		re accurate (1) than a measuring cylinder (1) :: more accurate than a burette = 0		[2]
	• • •	effect / advantage (1) measuring temperature changes / no temperature	difference (1)	[2]

Page 3		Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2013	0620	52
2 (a	a) colourles not: clea	ss / pale yellow (liquid) ar		[1]
(t		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	c) no reacti	on / change / precipitate (1)		[1]
(c	d) yellow (1) precipitate (1)		[2]
(e	e) brown / v	white (1) precipitate (1)		[2]
(f	starch tu) bubbles / fizz / effervescence (1) rns blue / black (1) k precipitate		[3]
(ç	g) iodine di not: read	ssolves / soluble / diffuses / owtte (1) cts		[1]
(۲		' hydrocarbon (1) solvent (1) iscible (1)		max [2]
(i)) iodide / r not : iodi	not a sulfate (1) ne		[1]