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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.



Page 2		je 2	Mark Scheme	Syllabus Par		
			IGCSE – October/November 2013	0620 52	2	
	į	 (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) ±2cm 				
	į	initial and differenc	results for Experiment 2 d final boxes completed correctly (1) se box completed correctly (1) able to supervisors (1) ±5 cm ³		[3]	
	(c)	colourles	ss (1) pink / magenta (1)		[2]	
	(d)	neutralis	ation / acid-base (1)		[1]	
			ne for Experiment 1 from table (1) cm ³ (1) mark for double the volume		[2]	
	(f)		ets 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	0–17	[2]	
	(i	•	mate 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]	
	ι • ·	no effect reason –	(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]	
	((ii) no e	ffect / advantage (1)	(4)	[0]	

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not measuring temperature changes / no temperature difference (1)

[2]

Page 3		Mark Scheme	Syllabus	Paper		
		IGCSE – October/November 2013	0620	52		
! (a		colourless / pale yellow (liquid) not: clear				
(I		d turns yellow / red / brown (1)) layers (1) top layer pink / purple (1)		[1] [2]		
	(ii) two	layers / oil bubble (1) yellow (1)		[2]		
(0	c) no reacti	ion / change / precipitate (1)		[1]		
(0	d) yellow (1) precipitate (1)		[2]		
(0	e) brown / \	white (1) precipitate (1)		[2]		
(1	starch tu	l) bubbles / fizz / effervescence (1) rns blue / black (1) ck precipitate		[3]		
(9	g) iodine di not: read	ssolves / soluble / diffuses / owtte (1) cts		[1]		
(I		hydrocarbon (1) solvent (1) iscible (1)		max [2]		
(i) iodide / r not: iodi	not a sulfate (1) ne		[1]		

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