UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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## for the guidance of teachers

## 0620 CHEMISTRY

0620/53 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 must be read in conjunction with the question papers and the report on the examination.

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Pa	nge 2	Mark Scheme: Teachers' version Syllabus	Y.
		IGCSE – October/November 2010 0620	
(a)		results for Experiment 1	and
-	volume o	of acid box completed correctly (1)	"Tig
	compara	Mark Scheme: Teachers' version Syllabus   IGCSE – October/November 2010 0620   Tresults for Experiment 1 0620   of acid box completed correctly (1) able to supervisors (1)   Tresults for Experiment 2 of acid box completed correctly (1)	3
(b)	Table of	results for <i>Experiment</i> 2	
(~)	volume o		
	compara	able to supervisors (1) –1 if not 1 decimal place	[4]
(c)	nink (1)	to colourless (1) <b>not</b> clear	[2]
(-)	P ( . )		r_1
(d)	(i) hydi	roxide	[1]
	(ii) neu	tralisation	[1]
(e)	(i) expe	eriment 2	[1]
	(ii) exp	eriment 2 2× volume experiment 1	[1]
	• •	line solution <b>G</b> more concentrated/stronger (1) or converse	
	2× a	as concentrated (2)	[2]
(f)	half valu	e from table result for experiment 2 (1) cm <sup>3</sup> (1)	
(-)		ime of <b>G</b> used (1) max 2	[2]
(g)	· · ·	sources of error using a measuring cylinder to measure alkalis/going past end point owtte	[2]
	-	meaningful improvements related to above	-
		use a pipette/burette/repeat experiment or use different indicator	[2]
		[Tc	otal: 18]
(a)	white/co	lourless crystals	[1]
(b)	melts/tur	rns into a liquid owtte (1)	
( <i>)</i>	crackles	(1)	
	pH pape smell (1)	er turns blue/ pH > 7 (1) ) max 2	[2]
	• •		-
(c)	(i) whit	te (1) precipitate (1)	[2]
	<b>(ii)</b> no c	change/no reaction owtte	[1]
	(iii) oun	gent/smelly (gas) (1)	
		cator paper turns blue or pH > 7 (1)	[2]

Page 3	Mark Scheme: Teachers' version	Syllabus Syllabus	
	IGCSE – October/November 2010	0620	
	s white/colour fades (1)	anto	
	ation at top of tube (1) s (1) max 2	Syllabus 0620 BACOMUDIC	
(e) (i) gree	n (1) precipitate (1)	[2]	
(ii) white	precipitate	[1]	
<b>(iii)</b> (man	ganate) turns colourless/yellow/orange/brown	[1]	
<b>f)</b> steam (1)			
heat give solid turn	n oπ (1) s green/brown/yellow/orange (1) max 2	[2]	
<b>'g)</b> ammonia		[1]	
<b>h)</b> ammoniu	m (1) sulfate (1)	[2]	
( <b>i)</b> iron (1) (I	I) (1) sulfate (1)	[3]	
		[Total: 22]	