MARK SCHEME for the October/November 2010 question paper

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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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – October/November 2010	0620	53	
1	(a)	(a) Table of results for <i>Experiment 1</i> volume of acid box completed correctly (1) comparable to supervisors (1)				
	(b)	volume	results for <i>Experiment 2</i> of acid box completed correctly (1) able to supervisors (1) –1 if not 1 decimal place		[4]	
	(c)	pink (1)	to colourless (1) not clear		[2]	
	(d)	(i) hyd	roxide		[1]	
		(ii) neu	tralisation		[1]	
	(e)	(i) exp	eriment 2		[1]	
		(ii) exp	eriment 2 2× volume experiment 1		[1]	
		• •	line solution G more concentrated/stronger (1) or c as concentrated (2)	onverse	[2]	
	(f)		e from table result for experiment 2 (1) cm ³ (1) me of G used (1) max 2		[2]	
	(g)	• • •	sources of error using a measuring cylinder to measure alkalis/goin	g past end point owtte	e [2]	
			meaningful improvements related to above use a pipette/burette/repeat experiment or use diffe	erent indicator	[2]	
					[Total: 18]	
2	(a)	(a) white/colourless crystals			[1]	
	(b)	(b) melts/turns into a liquid owtte (1)				
		crackles (1) pH paper turns blue/ pH > 7 (1) smell (1) max 2		[2]		
	(c)	(i) whit	e (1) precipitate (1)		[2]	
		(ii) no c	hange/no reaction owtte		[1]	
			gent/smelly (gas) (1) cator paper turns blue or pH > 7 (1)		[2]	

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2010	0620	53
condens	as white/colour fades (1) ation at top of tube (1) s (1) max 2		[2]
(e) (i) gree	n (1) precipitate (1)		[2]
(ii) white	e precipitate		[1]
(iii) (mar	nganate) turns colourless/yellow/orange/brown		[1]
(f) steam (1 heat give solid turr			[2]
(g) ammonia			[1]
(h) ammoniu	ım (1) sulfate (1)		[2]
(i) iron (1) (II) (1) sulfate (1)		[3]
			[Total: 22]