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		ge 2	Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – October/November 2010	0620	53	
1	(a)	Table of volume of compara	results for <i>Experiment 1</i> of acid box completed correctly (1) ble to supervisors (1)			
	(b)	Table of volume of compara	results for <i>Experiment 2</i> of acid box completed correctly (1) ble to supervisors (1) –1 if not 1 decimal place		[4]	
	(c)	pink (1)	o colourless (1) not clear		[2]	
	(d)	(i) hydr	roxide		[1]	
		(ii) neut	ralisation		[1]	
	(e)	(i) expe	eriment 2		[1]	
		(ii) expe	eriment 2 2× volume experiment 1		[1]	
		(iii) alka 2× a	line solution G more concentrated/stronger (1) or c s concentrated (2)	onverse	[2]	
	(f)	half valu half volu	e from table result for experiment 2 (1) cm ³ (1) me of G used (1) max 2		[2]	
	(g)	(i) two e.g.	sources of error using a measuring cylinder to measure alkalis/going	g past end point ow	tte [2]	
		(ii) two e.g.	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) r		melts/tur	melts/turns into a liquid owtte (1) crackles (1)			
		pH pape smell (1)	r turns blue/ pH > 7 (1) max 2		[2]	
	(c)	(i) whit	e (1) precipitate (1)		[2]	
		(ii) no c	hange/no reaction owtte		[1]	
		(iii) pung india	gent/smelly (gas) (1) ator paper turns blue or pH > 7 (1)		[2]	

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Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2010	0620	53
(d) solid turr condens acidic ga	ns white/colour fades (1) ation at top of tube (1) is (1) max 2		[2]
(e) (i) gree	en (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) en off (1) ns green/brown/yellow/orange (1) max 2		[2]
(g) ammonia	3		[1]
(h) ammoniu	um (1) sulfate (1)		[2]
(i) iron (1) (II) (1) sulfate (1)		[3]
			[Total: 22]