MARK SCHEME for the May/June 2010 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/52

Paper 52 (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.

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P	Page 2	Mark Scheme: Teachers' version	Syllabus	Paper			
		IGCSE – May/June 2010	0620	52			
1 Ta	Table of results						
te va	emperature alues decre	of water boxes correctly completed (1) boxes completed (1) asing (1) o supervisor's results (2) ±10 at 10 cm ³ ±10 at 16 cr	n ³	[5]			
(a	points pl	ate scale for y axis (1) otted correctly(4), –1 for each incorrect <u>traight</u> line graph (1)		[6]			
(b	o) clear liqu	id formed/no solid visible owtte (1) e.g. no salt left		[1]			
(c		m graph for 9 cm^3 of water (1) $\pm \frac{1}{2}$ small square ation of straight line shown (1)		[2]			
(d	l) sketch g label (1)	raph below line (1)		[2]			
(e	solution	tures at which crystals appear lower (1) more dilute in same volume of water/less saturated ture halved as half as much solid = 2	owtte (1)	[2]			
(f)	don' do n	ovement from e.g. t use a beaker of cold water to cool solution/ ot remove thermometer from the solution/ second person/or IT method to note formation of cr eat	ystals				
	diffe loss	planation rent rate of heat losses/ of solid on thermometer/ erving formation of first crystals may vary age		[2]			
		-					

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Pa	age 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2010	0620	52
2 (a)	Tests or	n solid W		
	yellow (precipita	1) ate (1) not solid		[2]
(b)	Tests or	n solution X		
()	(i) blue	e (1)		[1]
	рН	of solution X approx 1–4 (1)		[1]
	(ii) blue pree	e (1) cipitate (1)		[2]
	dar	e precipitate (1) ker/deep/royal blue (1) ution (1) or precipitate dissolves/goes clear		[3]
	crea	wn (liquid/solution) (1) am/white (1) d/precipitate (1)		[3]
(c)	Tests or	n solution Y		
	(i) pH	1–3 (1)		[1]
	(ii) whi			
	pre	cipitate (1)		[2]
(d)	iodide o	r I ⁻ (1) not iodine		[1]
(e)	copper			101
	acidic (1	1)		[2]
(f)	sulfate o			
	acid onl sulfuric	y (1) acid (2) max [2]		[2]
				[Total: 40]

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