UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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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.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Pa	ge 2	Mark Scheme: Teachers' version	Syllabus	K.
		IGCSE – May/June 2010	0620	
Tab	le of resul	ts		amb
tem valu	perature t les decrea	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	Syllabus 0620 m ³	[5]
(a)	points plo	nte scale for y axis (1) otted correctly(4), –1 for each incorrect <u>raight</u> line graph (1)		[6]
(b)	clear liqu	id formed/no solid visible owtte (1) e.g. no salt left		[1]
(c)		from graph for 9 cm^3 of water (1) $\pm \frac{1}{2}$ small square polation of straight line shown (1)		
(d)	sketch gr label (1)	aph below line (1)		[2]
(e)	solution r	mperatures at which crystals appear lower (1) lution more dilute in same volume of water/less saturated owtte (1) mperature halved as half as much solid = 2		
(f)	don't do no	ovement from e.g. use a beaker of cold water to cool solution/ ot remove thermometer from the solution/ second person/or IT method to note formation of cruation	ystals	
	loss	ent rate of heat losses/ of solid on thermometer/ rving formation of first crystals may vary		[2]

Page 3	Mark Scheme: Teachers' version IGCSE – May/June 2010	Syllabus 0620
	· · · ·	0020 36
(a) Tests or	n solid W	Abr.
yellow (<i>*</i> precipita	l) te (1) not solid	.3
(b) Tests or	solution X	Syllabus 0620 BRCambridg
(i) blue		[1]
	of solution X approx 1–4 (1)	[1]
(ii) blue		[0]
-	cipitate (1)	[2]
	e precipitate (1) ker/deep/royal blue (1)	
	tion (1) or precipitate dissolves/goes clear	[3]
	vn (liquid/solution) (1) am/white (1)	
	d/precipitate (1)	[3]
(c) Tests or	solution Y	
(i) pH	1–3 (1)	[1]
(ii) whit		101
prec	cipitate (1)	[2]
(d) iodide o	r I ⁻ (1) not iodine	[1]
(e) copper (
acidic (1		[2]
(f) sulfate c		
acid only sulfuric a	/ (1) acid (2) max [2]	[2]
		[Total: 40]