## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2008 question paper

## 0620 CHEMISTRY

0620/06

Paper 6 (Alternative to Practical), maximum raw mark 60

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

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	Page 2		Mark Scheme			Syllabus	Paper	
			IGCSE – October/November 2008				0620	06
(a)	mortar (1) stirrer/(glass) rod (1) not metal rod or thermometer funnel (1) not filter or filter paper						[3]	
(b)	(i)	wate	r					[1]
	(ii)	origir	n correctly la	abelled on diagr	am i.e.	at dot		[1]
(c)		•	dots at diffee spots if o	erent levels in v ne is origin	ertical li	ine		[1]
								[Total: 6]
(a)	carl	oon/gi	raphite/any (	unreactive meta	ıl e.g. pl	latinum/nickel		[1]
(b)	ligh	ted sp	olint (1) pops	s (1)				[2]
(c)	gas	disso	olves (in the	solution) o.w.t.t	.e			[1]
(d)			dium) hydro bleach (1) no	xide (1) ot chloride or ch	lorine id	ons		[2]
								[Total: 6]
(a)				ng position (1) n (and collectior	n tube) (	(1)		[2]
(b)	broi	bromine/iodine (water) (1) turns colourless (1) not clear						[2]
								[Total: 4]
(a)	Tab	le of ı	results					
	Initi	al box	es correctly	completed (1)	24 26 21 29			
	Fina	al box	es correctly	completed (1)	27 22 11 23			
				completed (1)	+3	signs correct (1	)	
	Diff	erenc	es correctly	completed (1)	-4			

Mark Scheme

Syllabus

Paper

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Page 3	Mark Scheme IGCSE – October/November 2008	Paper 06	
(b) all 4 bars	s correctly drawn (3), –1 for each incorrect	0620	[4]
(c) (i) solic	A/Experiment 1		[1]
(ii) tem	perature increased/heat given out		[1]
(d) Experime	ent 3		[1]
(e) (i) doub	ole the value or (–)8°C e.c.f.		[1]
(ii) half	the value or (–)3°C e.c.f.		[1]
(iii) more	e/larger volume of water (1) twice as much (1) for se	olid to dissolve in	[2]
(f) acid pres	sent (1) carbonate present (1) carbon dioxide (1)		[max 2]
			[Total: 17]
5 (a) solution	K blue/green not precipitate		[1]
(c) tests on	solution <b>K</b>		
(i) blue	(1) precipitate (1)		[2]
	precipitate p/royal (1) blue solution or precipitate dissolves (1)		[1] [2]
(iii) no re	eaction/change/nothing		[1]
(iv) white	e precipitate		[1]
(d) tests on	solution L		
(iii) no re	eaction/change/nothing		[1]
(iv) white	e precipitate		[1]
(e) acids			[1]
<b>(f)</b> iron (1) (	III) (1) or Fe <sup>3+</sup> (2) ignore anions		[2]
			[Total: 13]

			IGCSE – October/November 2008	0620	06
6	(a)		otted correctly (3), –1 for each incorrect curve (1) not a straight line		[4]
	(b)	47±1 or r	reading from graph (1) curve extrapolated on grid (	1)	[2]
	(c)	•	stals form owtte (1) 20g (1) oility decreases		[2]
					[Total: 8]
7	(a)		m the acid (1) ess oxide or description of no more solid reacting (1) ant (1)	)	[3]
	(b)	heat qua	alified e.g. to crystallising point or description of	e.g. using glass i	rod/leave it to

method of drying crystals e.g. pressed filter papers/oven at low temperature (1)

**Mark Scheme** 

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evaporate (1)

cool to form crystals (1) filter off crystals (1)

[Total: 6]

[max 3]

[Total for paper: 60]

**Syllabus** 

**Paper**