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## **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.

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	Page 2		Mark Scheme		Syllabus	Paper	
			IGCSE – October/Nove		er 2008	0620	06
1	(a)	(a) mortar (1) stirrer/(glass) rod (1) not metal rod or thermometer funnel (1) not filter or filter paper					
	(b)	(i) wate	er .				[1]
		(ii) origin correctly labelled on diagram i.e. at dot					
	(c)	two spots/dots at different levels in vertical line allow three spots if one is origin					
							[Total: 6]
2	(a)	(a) carbon/graphite/any unreactive metal e.g. platinum/nickel					[1]
	(b)	lighted s	plint (1) pops (1)				[2]
	(c)	gas disso	olves (in the solution) o.w.t.t	.e			[1]
	(d)		odium) hydroxide (1) bleach (1) not chloride or ch	llorine id	ons		[2]
							[Total: 6]
3	(a)		cated in wrong position (1) in the trough (and collection	n tube) (	(1)		[2]
	(b)	bromine/iodine (water) (1) turns colourless (1) not clear				[2]	
							[Total: 4]
4	(a)	Table of	results				
		Initial bo	xes correctly completed (1)	24 26 21 29			
		Final box	xes correctly completed (1)	27 22 11 23			
		Difference	ces correctly completed (1)	+3 -4	signs correct (1)		
				-10 -6			[4]

Page 3	Mark Scheme	Syllabus	Paper		
	IGCSE – October/November 2008	0620	06		
	(b) all 4 bars correctly drawn (3), -1 for each incorrect labelled (1)				
(c) (i) so	(c) (i) solid A/Experiment 1		[1]		
(ii) te	(ii) temperature increased/heat given out		[1]		
(d) Experi	(d) Experiment 3				
(e) (i) do	(e) (i) double the value or (–)8°C e.c.f.		[1]		
(ii) ha	(ii) half the value or (–)3°C e.c.f.		[1]		
(iii) m	(iii) more/larger volume of water (1) twice as much (1) for solid to dissolve in				
(f) acid p	(f) acid present (1) carbonate present (1) carbon dioxide (1)				
			[Total: 17]		
5 (a) solution	on <b>K</b> blue/green not precipitate		[1]		
(c) tests o	(c) tests on solution K				
(i) bl	(i) blue (1) precipitate (1)		[2]		
(ii) bl	ue precipitate eep/royal (1) blue solution or precipitate dissolves (1)		[1] [2]		
(iii) no	(iii) no reaction/change/nothing		[1]		
(iv) w	(iv) white precipitate		[1]		
(d) tests o	(d) tests on solution L				
(iii) no	(iii) no reaction/change/nothing		[1]		
(iv) w	hite precipitate		[1]		
(e) acids	(e) acids				
<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 (1)	e.g. using glass	rod/leave it to

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

**Mark Scheme** 

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

[Total: 6]

[max 3]

**Paper** 

[Total for paper: 60]

**Syllabus**