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		
			IGC	SE – October/N	lovemb	er 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 l	abelled on diagr	am i.e.	at dot		[1]
(c)		•		erent levels in v ne is origin	ertical li	ine		[1]
								[Total: 6]
(a)	carl	bon/gı	raphite/any	unreactive meta	al e.g. pl	latinum/nickel		[1]
(b)	ligh	ted sp	olint (1) pop	s (1)				[2]
(c)	gas	disso	olves (in the	solution) o.w.t.t	e			[1]
(d)			dium) hydro oleach (1) n	oxide (1) ot chloride or ch	nlorine id	ons		[2]
			, ,					[Total: 6]
(a)				ong position (1) h (and collection	n tube) ((1)		[2]
(b)	bro	bromine/iodine (water) (1) turns colourless (1) not clear						[2]
								[Total: 4]
(a)	Tab	ole of i	results					
	Initi	al box	kes correctly	y completed (1)	24 26 21 29			
	Fina	al box	es correctly	completed (1)	27 22 11 23			
					+3	signs correct (1))	
	Diff	erenc	es correctly	completed (1)	-4		,	

Mark Scheme

Syllabus

Paper

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Page 3	Mark Scheme						
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	(b) all 4 bars correctly drawn (3), -1 for each incorrect labelled (1)						
(c) (i) so	c) (i) solid A/Experiment 1						
(ii) ter	(ii) temperature increased/heat given out						
(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) mo	(iii) more/larger volume of water (1) twice as much (1) for solid to dissolve in						
(f) acid pr	(f) acid present (1) carbonate present (1) carbon dioxide (1)						
		Γ	Total: 17]				
5 (a) solutio	n K blue/green not precipitate		[1]				
(c) tests o	(c) tests on solution K						
(i) blu	(i) blue (1) precipitate (1)		[2]				
	(ii) blue precipitate deep/royal (1) blue solution or precipitate dissolves (1)		[1] [2]				
(iii) no	(iii) no reaction/change/nothing(iv) white precipitate		[1]				
(iv) wh			[1]				
(d) tests o	(d) tests on solution L						
(iii) no	(iii) no reaction/change/nothing						
(iv) wh	nite precipitate		[1]				
(e) acids			[1]				
(f) iron (1)	(f) iron (1) (III) (1) or Fe ³⁺ (2) ignore anions						
		Γ	Total: 13]				

	ı agc ı		Mark Scheme	Cyliabas	i apci
			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 ı	reading from graph (1) curve extrapolated on grid (1)	[2]
	(c)	•	stals form owtte (1) 20g (1) bility decreases		[2]
					[Total: 8]
7	(a)		rm 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 te (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