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 Sch	Syllabus	Paper	
			IGCSE – October/No	ovember 2008	0620	06
1	(a)	mortar (′ stirrer/(g funnel (1	1) lass) rod (1) not metal rod I) not filter or filter paper	or thermometer		[3]
	(b)	(i) wate	er			[1]
		(ii) origi	in correctly labelled on diagra	m i.e. at dot		[1]
	(c)	two spot allow thr	s/dots at different levels in ve ee spots if one is origin	rtical line		[1]
						[Total: 6]
2	(a)	carbon/g	graphite/any unreactive metal	e.g. platinum/ni	ckel	[1]
	(b)	lighted s	plint (1) pops (1)			[2]
	(c)	gas diss	olves (in the solution) o.w.t.t.	9		[1]
	(d)	alkali/(so chlorine/	odium) hydroxide (1) /bleach (1) not chloride or chl	orine ions		[2]
						[Total: 6]
3	(a)	heat indi no water	icated in wrong position (1) [,] in the trough (and collection	tube) (1)		[2]
	(b)	bromine	mine/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 bo	xes correctly completed (1)	27 22 11 23		
		Differend	ces correctly completed (1)	+3 signs cc -4 -10 -6	prrect (1)	[4]

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Page 3	Mark Scheme	Syllabus	Paper				
(b) all 4 ba labelled	rs correctly drawn (3), –1 for each incorrect	0020	[4]				
(c) (i) soli	id A /Experiment 1		[1]				
(ii) ten	nperature increased/heat given out		[1]				
(d) Experin	(d) Experiment 3						
(e) (i) dou	uble the value or (–)8°C e.c.f.		[1]				
(ii) hal	f the value or (–)3°C e.c.f.		[1]				
(iii) mo	re/larger volume of water (1) twice as much (1) for so	olid to dissolve in	[2]				
(f) acid pre	(f) acid present (1) carbonate present (1) carbon dioxide (1)						
			[Total: 17]				
5 (a) <u>solution</u>	<u>n Κ</u> blue/green not precipitate		[1]				
(c) <u>tests or</u>	(c) tests on solution K						
(i) blu	e (1) precipitate (1)		[2]				
(ii) blu dee	e precipitate ep/royal (1) blue solution or precipitate dissolves (1)		[1] [2]				
(iii) no	reaction/change/nothing		[1]				
(iv) whi	ite precipitate		[1]				
(d) <u>tests or</u>	(d) tests on solution L						
(iii) no	reaction/change/nothing		[1]				
(iv) whi	ite precipitate		[1]				
(e) acids			[1]				
(f) iron (1)	(III) (1) or Fe^{3+} (2) ignore anions		[2]				
			[Total: 13]				

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Pa	age 4	Mark Scheme	Syllabus	Paper	
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6 (a)	 a) Points plotted correctly (3), -1 for each incorrect smooth curve (1) not a straight line 			[4]	
(b)	47±1 or ı	reading from graph (1) curve extrapolated on grid (1)	[2]	
(c)	solid/crys	stals form owtte (1) 20g (1) bility decreases		[2]	
				[Total: 8]	
7 (a)	heat/war add exce filter/dec	m the acid (1) ess oxide or description of no more solid reacting (1) ant (1))	[3]	
(b)	heat qua evaporat cool to fo filter off o	alified e.g. to crystallising point or description of e (1) orm crystals (1) crystals (1)	e.g. using glass r	od/leave it to	
		n drying drystals e.g. pressed lilter papers/over at h		[max 3]	
				[Total: 6]	

[Total for paper: 60]