

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATION International General Certificate of Secondary Education

MARK SCHEME for the October/November 20

## 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	www.xtrapapers.com
	y	IGCSE – October/November 2007	80
1	(a) (i) co (ii) co	orrect indication for crystals (1) orrect indication of heat (1) no labels but correct position	<sup>s</sup> Cambridge
	(b) to coo	ol/condense the water/gas/liquid (1)	Com
	(c) blue (	1) to white/grey (1)	
2	(a) brown	/orange/red-brown (1)	[1]
	<b>(b) (i)</b> ta	akes the place of oxygen owtte (1) not air	[1]
	<b>(ii)</b> 10	6.6–17% (1)	[1]
	<b>(c) (i)</b> fo	ormation of rust slower (1)	[1]
	<b>(ii)</b> no	o effect (1)	[1]
3	( <b>a</b> ) So tha	at all acid is used up/neutralised (1)	[1]
	(b) filter (	1)	[1]
	(c) (i) no	o more solid/solute can dissolve (1) at that temperature (1	) [2]
	<b>(ii)</b> us fc	se a glass rod to show crystals forming/observe crystals prming on edge of solution (1)	[1]
	(d) to pre	vent breakdown of the crystals/not form powder/not lose w	vater (1) [1]

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	Page 3	Mark Scheme	and the second second			
4	Table of res	ults	<sup>a</sup> Canto			
	For all exper Initial tempe	riments rature boxes correctly completed	Tidge.co			
	18, 26, 16, 2	SH				
	and final ten	nperature boxes correctly completed (3) –1 for each in				
	19, 29, 21, 4	1				
	Differences correctly completed (1)					
	1, 3, 5, 19					
	(a) bubbles	/fizz (1)	[1]			
	(b) Appropr 4 bars c	iate scale for <i>y</i> -axis (1) correctly drawn (2), –1 for incorrect bar	[3]			
	(c) (i) Exp	periment 1 (1)	[1]			
	(ii) Exp	periment 4 (1)	[1]			
	(d) correct different	reference to particle size/surface area (1) t chemicals used owtte (1)	[2]			
	(e) reason e.g. mai	(1) for specified reagent (1) rble chips (1) visible at end of reaction (1)	[2]			
	(f) tempera larger ve	ature changes would be smaller/less (1) olume of acid (1)	[2]			

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	Page 4		ŀ	Mark Scheme		<sup>2</sup> ·D
				IGCSE – Octob	per/November 2007	AD30
5	(a)	(i)	Q	blue/purple (1) 11–14 (	1)	sannb.
		(ii)	Q R	no reaction/change (1) bubbles/fizz (1)		lidge com
	(c)	but lim	bles ewat	:/fizz (1) er (1) milky (1)		
	(e)	gre	en (′	1) precipitate (1)		[2]
	(f)	[1]				
	(g)	[1]				
	(h)	[1]				
	(i) <sup>,</sup>	weał	x (1)	acid (1)		[2]
6	vol	ume	s cor time	rrectly completed /minutes	volume/cm <sup>3</sup>	
				0	0	
				2	18	
				4	30	
				6	33	
				8	42	
			1	0	45	
			1	2	46	[3]
	(a)	All	poin	ts plotted correctly (2)		
	()	–1 sm	for a ooth	ny incorrect line graph (1)		[3]
	(b)	(i)	at 6	S minutes (1)		[1]
		(ii)	37/	38 cm³ (1)		[1]
7	sar init bur rec	ne v ial te n/igr	olum mpe nite f	e/mass of fuel/idea of fa rature of water (1) uel (1) erature of water (1)	ir test (1)	
	cor	npar	e e.g	g. greatest temperature r	ise in specified time shows better fuel (1)	[6]