UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0620 CHEMISTRY

0620/61

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, which would have considered the acceptability of alternative answers.

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: Teachers' version	Syllabus Syllabus			
		IGCSE – October/November 2011	0620			
			an,			
(a) (i	i) (gas) :	syringe (1)	01			
(ii) arrow	indication under copper (1)				
X	,		Syllabus 0620 Rabacambrit			
(b) sr	patula (1)		[1]			
(c) bl	lack (1)		[1			
. ,			-			
(d) tc	o return to	o room/initial temperature (1)				
C	orrect vol	ume of gas (1)	[2			
		ted correctly (2) e graph missing anomalous point (1)	[3			
0			[U			
(b) p	oint at 15	cm ³ /pH 2.6/third point (1)	[1			
(~) p	onit at 10		Ľ			
(c) (i	i) 12.6 (*	1)	[1			
(11) pH1(1) extrapolation shown (1)	[2			
(d) (i) 7 (1)		[1			
(d) (i						
(ii) 25 (1)		[1]			
		· · · · · · · · · · · · · · · · · · ·				
	 repeat experiment (1) stop when 25 cm³ added/when pH7 (1) evaporate/heat (1) use same volumes (1) 					
		sing point/until saturated (1)	max [3			
(a) cł	hromatog	raphy (1)	[1			
(b) lir	ne drawn	on diagram below origin (1)	[1]			
			<u>-</u>			
(c) do	oes not ir	nterfere with results/owtte (1)	[1			
(-I) "						
	ifference has more	e/3 colours/ B has less/2 colours/ B contains F but	A doesn't/A contains C/			
		bes not (1)				
si	imilarity					
		in same colour/ E (1)	[2			

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	Pa	age 3		Mark Scheme: Teachers' version Syllabus				s P		
				IGCS	E – October/I	November	2011	0620		200
	(e)	C , [) and	d E (1)						amphi
4	(a)	tem	pera	f results for Ex ature boxes co 21, 32, 39	mpleted corre	• • •				38 Cambridge.con. [3]
	(b)	tem	pera	f results for Ex ature boxes co 21, 24, 32	mpleted corre					[3]
	(c)	bes		s correctly plo smooth line gra l)		each incorre	ect			[5]
	(d)	valu	ie fro	om graph ≈28º	C ± half small	square (1)	unit (1) shov	vn clearly (1))	[3]
	(e)	exo	therr	mic/redox/disp	lacement (1)					[1]
	(f)	(i)	tem	perature rises	greater/faster	in Experim	ient 1 (1) all o	ow converse	9	[1]
		(ii)	zinc	c is more react	ive (1)					[1]
	(g)			ature changes ature changes)/	[2]
	(h)			ould react slow surface area (e rises wou	ld be slower	(1)		[2]
5	(a)	(i)	Ρ	colourless, no	o smell (1)					[1]
		(ii)	Ρ	рН 1–3 (1)						[1]
	(b)			es/effervescer splint pops (1)						[2]
	(c)	whi	te (1)) precipitate (1)					[2]
	(e)	wea	ak ac	cid (1) ethanoi	c acid (2)					[2]
	(f)	wat	er (1)						[1]

