UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/05

Paper 5 (Practical Test), maximum raw mark 40

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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

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	2	Mark Scheme: Teachers' version IGCSE – May/June 2009	Syllabus 0620	Paper 05
Table	of resul	č	0020	05
Initial t Final t Averag	tempera empera ge temp	ature boxes completed correctly i.e. increasing dow ature boxes correctly completed i.e. lower or the sar perature boxes correctly completed (1) eted correctly i.e. descending (1) in seconds (1)	.,	[5
	•	correctly plotted (2), –1 for any incorrect		L
sr	nooth li	ne graph is a curve (1)		[3
(b) pa	ale yello	ow/cream/white (1) not cloudy/milky		[1
(c) (i	i) expe	eriment 5 (1)		[1]
(ii	,	e energy owtte (1) particles move faster (1) more ki e collisions (1)	netic energy = 2	[3]
(d) id	ea of a	fair test/to compare effect of changing the tempera	ture (1)	[1]
(e) (i		e from graph (1) unit (1) apolation shown (1)		[3]
(ii	i) curve	e sketched on grid below original curve (1)		[1]
• •	-	e.g. use of data logger/colourimeter (1) or use of lag xperiments/use a burette or pipette	iging/insulation	
	•	on e.g. timing of reaction more accurate (1) to redu readings for times/more accurate volumes	ce heat losses	[2]
				[Total: 20]
tests c	on solid	S		
(a) bl	ack (so	lid) see (d)		
• •		ence (1) ites/catches fire or glows brighter (1)		[2
(c) bl	ue (1)			[1]
(i)	blue	(1) precipitate (1)		[2]
(-)				

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Page 3	Mark Scheme: Teachers' version	Syllabus	Paper		
	IGCSE – May/June 2009	0620	05		
(ii) blue	(ii) blue (1) precipitate (1)				
with	excess dissolves/clears (1) deep/royal blue (1)		[2]		
(iii) whit	e (1) precipitate (1)		[2]		
(d) black/da	rk brown solid (1) MUST HAVE (a) correct as well		[1]		
(e) efferves	cence (1) splint relights (1) ignore pops		[2]		
(f) (i) Vis (ii) oxyg	more reactive/faster or converse (1) gen (1)		[1] [1]		
(g) copper (1) oxide (1) reacts with sulfuric acid to form copper	sulfate (1) max 2	[2]		
(h) catalyst/	transition metal/manganese oxide (1)		[1]		
			[Total: 20]		

[Total: 20]

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