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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2006 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 students, 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.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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

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Page 2	Mark Scheme	Syllabus	Paper
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1 (a) Boxes filled in correctly to show tongs(1) watch glass/evaporating basin/dish(1) beaker(1) [3] (b) oxidation/combustion/exothermic/redox(1) [1] (c) > 7(1) [1] 2 (a) brown/orange(1) [1] (b) [1] oxygen used in rusting(1) not air $\frac{25}{150} \times 100 \text{ (1)} = 17\%/16.6 \rightarrow 17\%(1) \text{ 2 for correct answer}$ [2] more rust/quicker to rust/water further up tube/tube fills up(1) (d) [1] 3 table of results all volumes correct (2) 0, 9, 35, 62, 81, 88, 89 [2] -1 for any incorrect (a) graph points (2) S-shaped curve joining all points(1) [3] exothermic/displacement/oxidation/redox(1) (b) [1] (c) slow at start/speeds up/slows down at end max 2 [2] (ii) surface dirty owtte at start/then clean/calcium being used up/warms up max 2 [2]

Page 3	Mark Scheme	Syllabus	Paper
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_	(a)	zinc	orrectly co 24 56 25 41	mpleted(3 32 16	differences(1)	
			23 69	46		
		-1 for each inco				[4]
	(b)	(i) magnesiu	ım(1)			[1]
	` ,		ed rapidly	reacts(1)	greatest (temperature) difference(1)	[2]
		(iii) hydrogen	(1)			[1]
	(c)	Table of results	temperat	ures corre	ect (6)	[6]
		Time /s	zinc		magnesium	
		0 10	24 27		26 54	
		20	27 29		62	
		30	33		67	
		40	37		68	
		50 60	40 43		67 65	
	(d)			roothy(2)		
	(d)	Smooth lines(1)			1 for each incorrect	[4]
	(e)	` '	` ` '		°C(1) indication on grid(1)	[2]
	(f)	sketch line for N			. ,	[~]
	(')			_	nc/ any line below top curve(1)	[2]
	(g)	prevent heat los	-		no any mie bolow top curvo(1)	[1]
	(h)	•		` '	e/pipette to measure solution/ lid(1)	[1]
	(0)	(ii) rod(1) litm	aug turna h	dua(1) raf	ference to smell(1) max 2	ro1
,	(a)	. ,	[2]			
	(q)	weak(1) acid(1)			[2]
	(d)	ammonia(1)	orido(1)			[1]
	(e)	ammonium chlo				[1]
	(f)	potassium iodid	i e (1)			[1]
j	(a)		` ,	` ,	olid residue(1) max 2	[2]
	(b)	solid + organic	` ,	-		
			. ,	•	1) description of spots(1)	
					chromatography	[4]
	(c)	.,		ner(1) met	thod of checking dry, note time(1)	F63
		no paintin	•	- ! - !	in the size of the section of the se	[2]
		• •		e.g. nair dr	rier/wind/fan/increase temperature.	F41
		<u>NOT</u> cata	ıysı.			[1]

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[Total 60]