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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0620 CHEMISTRY

0620/63

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.

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

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2		Mark Scheme: Teachers' version			Syllabu	IS T.D. IT
	r age z		IGCSE – May/June 2012		0620	No.	
1	(a)	teat/drop		dropper (1) allo			s A. Papa Cambride
	(b)			ve larger surfac I have formed/f	ce area (1) aster decomposi	tion (1)	[2]
	(c)	sulfuric (1)				[1]
	(d)	filtration	(1)				[1]
	(e)	add mag	nesium (1)	allow: electroly	sis		[1]
							[Total: 6]
2	cold aqu yell nan	ourless (1 eous silve ow precip ned indica	er nitrate (1) vitate (1) ator/solution o	oromide f copper salt (1 olue precipitate	•		[6] [Total: 6]
3	(a)		completed co 5, 52, 56, 54, 6	orrectly 60, 60 -1 for e	each incorrect		[3]
	(b)	points plo smooth o		y (3) -1 for ea	ch incorrect		[4]
	(c)	point at 1	100 seconds/	54 cm³/point 6	(1) off curve/ow	tte (1)	[2]
	(d)	20 cm ³ ±	:½ small squa	re (1) indication	n on graph (1)		[2]
	(e)	reaction	finished/all pe	eroxide decomp	posed owtte (1)		[1]
	(f)	(i) in ar	n ice bath (1)	allow: in a ref	rigerator		[1]

[2]

[Total: 15]

(ii) curve less steep (1) to same level (1)

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4	(a)	pipette/burette	(1)
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4	(a)	pipe	ette/burette (1)	Morida
	(b)	(i)	methyl orange/phenolphthalein/litmus (1) not: Universal Indicator	2
		(ii)	yellow/pink to orange or pink/colourless (1)	[2]
	(c)	nitri	ic acid (1) more volume added than sodium hydroxide (1)	[2]
	(d)		eat experiment (1) without indicator (1) aporate solution (1)	[3]
				[Total: 8]
5	(c)		obles/fizz/effervescence (1) ewater (1) milky (1)	[1] [2]
	(d)	(i)	blue (1) precipitate (1)	[2]
		(ii)	blue precipitate (1) dark/deep blue (1) solution/dissolves (1)	[1] [2]
	(e)	bar	ium/calcium (1) chloride (1) not : chlorine ions	[2]
				[Total: 10]
6	(a)	Bur	nsen burner (1) ignore: switch	[1]
	(b)	labe	els on correct positions (1)	[1]
	(c)	(i)	bulb lights/idea of molten lead (1)	
		(ii)	bulb goes out/no fizz (1)	[2]
	(d)	pre	ssure of gas build up/explode owtte (1)	[1]
	(e)	iodi	ine formed (1) not : iodide from iodide ions (1)	[2]
	(f)		ne cupboard/well ventilated area (1) www gloves if reason specified ignore: goggles	[1]

[Total: 8]

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known mass/weight (1) of each fertiliser (1) add to same amount of soil (1)
bean (1) water (1)
leave for specified time (1) observe plant growth/effect (1) comparison/conclusion (1) max 7

[7] COM

[Total: 7]