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 IGCSE – May/June 2012	Syllabus 0620	Paper 63
1	(a) teat/dro	pping pipette/dropper (1) allow : pipette	0020	03[1]
•			[']	
		ore would have larger surface area (1) nc oxide would have formed/faster decomposition (1)		[2]
	(c) sulfuric	(1)		[1]
	(d) filtration	(1)		[1]
	(e) add mag	gnesium (1) allow : electrolysis		[1]
				[Total: 6]
2	bromine (wa colourless (1 aqueous silv yellow precip named indic correct colou		[6]	
				[Total: 6]
3		s completed correctly 5, 52, 56, 54, 60, 60 –1 for each incorrect		[3]
		lotted correctly (3) –1 for each incorrect curve (1)		[4]
	(c) point at	100 seconds/54 cm ³ /point 6 (1) off curve/owtte (1)		[2]
	(d) 20 cm ³ :	±½ small square (1) indication on graph (1)		[2]
	(e) reaction	finished/all peroxide decomposed owtte (1)		[1]
	(f) (i) in a	n ice bath (1) allow : in a refrigerator		[1]
	(ii) cur	ve less steep (1) to same level (1)		[2]
				[Total: 15]

	Page 3			Mark Scheme: Teachers' version	Syllabus	Paper
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4	(a)	pipe	ette/b	purette (1)		[1]
	(b)	(i)	meth	hyl orange/phenolphthalein/litmus (1) not : Univers	al Indicator	
		(ii)	yello	ow/pink to orange or pink/colourless (1)		[2]
	(c)	nitri	ic acio	id (1) more volume added than sodium hydroxide ((1)	[2]
	(d)			experiment (1) without indicator (1) te solution (1)		[3]
			.p = 1 = 1			[Total: 8]
5	(c)	hub	hlas/	/fizz/effervescence (1)		[1]
5	(0)			er (1) milky (1)		[1]
	(d)	(1)	blue	(1) provinitoto (1)		[0]
	(d)			e (1) precipitate (1)		[2]
		(ii)		e precipitate (1) <td></td> <td>[1] [2]</td>		[1] [2]
	(-)	الم م	/ .	alaine (4) ablarida (4) ratu ablarina iana		101
	(e)	bar	ium/c	calcium (1) chloride (1) not : chlorine ions		[2]
						[Total: 10]
6	(a)	Bur	nsen l	burner (1) ignore: switch		[1]
	(b)	labe	els or	n correct positions (1)		[1]
	(c)	(i)	bulb	b lights/idea of molten lead (1)		
		(ii)	bulb	o goes out/no fizz (1)		[2]
	(d)	pre	ssure	e of gas build up/explode owtte (1)		[1]
	(e)	iodi	ne fo	ormed (1) not : iodide from iodide ions (1)		[2]
	(5)	,				
	(f)			pboard/well ventilated area (1) oves if reason specified ignore : goggles		[1]
						[Total: 8]

	Page 4	Mark Scheme: Teachers' version IGCSE – May/June 2012	Syllabus 0620	Paper 63
7	add to sa + bean (nass/weight (1) of each fertiliser (1) ame amount of soil (1) 1) water (1) specified time (1) observe plant growth/effect (1)		
		son/conclusion (1) max 7		[7]

[Total: 7]