UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper for the guidance of teachers

0620 CHEMISTRY

0620/52

Paper 5 (Practical), maximum raw mark 40

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 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



			IGCSE – May/June 2011	0620	52
1	(a)	initial vol volume t allow ma	results for Experiment 1 ume box, at time = 0 completed correctly (1) boxes correctly completed in ascending order (1) aximum of 2 consecutive identical numbers ble to Supervisor's results (1) ±15 at 180s		[3]
	(b)	initial vol volume t allow ma	results for Experiment 2 ume box, at time = 0 completed correctly (1) boxes correctly completed in ascending order (1) aximum of 2 consecutive identical numbers ble to Supervisor's results (1) ±10 at 180s		[3]
	(c)	two smo	s correctly plotted (3), –1 for any incorrect including t = 0 oth line graphs (2) arly labelled (1)		[6]
	(d)	(i) expe	eriment 1 (1) not ecf		[1]
		(ii) acid	X stronger/more concentrated or converse (1) allow ecf	from (d)(i)	[1]
	(e)		finished (1) note 'reactants used up' scores this mark cid used up (1) not all Mg used up		[2]
	(f)		m graph (1) ± half small square (1.5s) idication shown (1)		[2]
	(g)	to prevei	nt air being displaced into the measuring cylinder/owtte (1)		

causing inaccurate reading/volume measurement (1)

(h) advantage e.g. convenient/easy/quick to use/fairly accurate (1)

disadvantage e.g. reference to inaccurate measurement (1)

Mark Scheme: Teachers' version

Syllabus

[2]

[2]

Page 2

	raye 3	Wark Scheme. Teachers Version	Syllabus	Fapei	
		IGCSE – May/June 2011	0620	52	
,	(a) white (1)			[1]	
	 (b) any three from: pH paper turns blue/pH >7 (1) description of sublimate e.g. solid formed on sides of tube (1) reference to smell of the gas (1) description of condensate (1) 				
	(c) (i) white	e (1) precipitate (1)		[2]	
	(ii) pape	er turns blue/pH>7 (1)		[1]	
	(iii) no p	recipitate/no reaction/no change/colourless/stays clear (1)		[1]	
	(d) efferveso	ence/bubbles/fizz (1) limewater (1) milky/cloudy (1)		[3]	
	(e) (i) white	e (1) precipitate (1)		[2]	
	(ii) no/th	nin/slight precipitate/no reaction (1)		[1]	
	(f) ammoniu	ım (1) chloride (1)		[2]	
	(g) calcium (1) carbonate (1)		[2]	
			İ	Total: 40]	

Mark Scheme: Teachers' version

Syllabus

Paper

Page 3

2