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

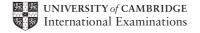
0620/52

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.



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(a)	Table of results for Experiment 1 initial volume box, at time = 0 completed correctly (1) volume boxes correctly completed in ascending order (1) allow maximum of 2 consecutive identical numbers comparable to Supervisor's results (1) ±15 at 180s	[3]
(b)	Table of results for Experiment 2 initial volume box, at time = 0 completed correctly (1) volume boxes correctly completed in ascending order (1) allow maximum of 2 consecutive identical numbers comparable to Supervisor's results (1) ±10 at 180s	[3]
(c)	all points correctly plotted (3), -1 for any incorrect including t = 0 two smooth line graphs (2) lines clearly labelled (1)	[6]
(d)	(i) experiment 1 (1) not ecf(ii) acid X stronger/more concentrated or converse (1) allow ecf from (d)(i)	[1] [1]
(e)	reaction finished (1) note 'reactants used up' scores this mark all the acid used up (1) not all Mg used up	[2]
(f)	value from graph (1) ± half small square (1.5s) tie line/indication shown (1)	[2]
(g)	to prevent air being displaced into the measuring cylinder/owtte (1) causing inaccurate reading/volume measurement (1)	[2]
(h)	advantage e.g. convenient/easy/quick to use/fairly accurate (1) disadvantage e.g. reference to inaccurate measurement (1)	[2]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
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2 (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) max [3] (c) (i) white (1) precipitate (1) [2] (ii) paper turns blue/pH>7 (1) [1] (iii) no precipitate/no reaction/no change/colourless/stays clear (1) [1] (d) effervescence/bubbles/fizz (1) limewater (1) milky/cloudy (1) [3] [2] (e) (i) white (1) precipitate (1) [1] (ii) no/thin/slight precipitate/no reaction (1) (f) ammonium (1) chloride (1) [2] [2] (g) calcium (1) carbonate (1) [Total: 40]