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.



| Page 2 | | ige 2 | Mark Scheme: Teachers' version | Syllabus | Paper |
|--------|-----|--|---|-------------------|-------|
| | | | 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 axible 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 able 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 f | rom (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) ndication shown (1) | | [2] |
| | (g) | | nt air being displaced into the measuring cylinder/owtte (1) inaccurate reading/volume measurement (1) | | [2] |
| | (h) | | ge e.g. convenient/easy/quick to use/fairly accurate (1) ntage e.g. reference to inaccurate measurement (1) | | [2] |

| | Page 3 | Mark Scheme: Teachers' version | Syllabus | Paper |
|---|--|--|----------|------------|
| | | IGCSE – May/June 2011 | 0620 | 52 |
| 2 | (a) white (1) | | | [1] |
| | description description description description description de la construcción de la construcción de la constru Construcción de la construcción de | e from: r turns blue/pH >7 (1) on of sublimate e.g. solid formed on sides of tube (1) e to smell of the gas (1) on of condensate (1) | | max [3] |
| | (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 | cence/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 | um (1) chloride (1) | | [2] |
| | (g) calcium (| (1) carbonate (1) | | [2] |
| | | | I | Total: 40] |