MARK SCHEME for the October/November 2011 question paper

MMM. Hiremepapers.com

for the guidance of teachers

0620 CHEMISTRY

0620/51

Paper 5 (Practical), maximum raw mark 40

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 October/November 2011 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 | | | Paper | |
|--------|-----|--|--|--|--|--------------------------|--------------|
| | | | | IGCSE - | - October/November 2011 | 0620 | 51 |
| 1 | (a) | table initia other comp | e of r I ten r ten oara | esults for experi operature boxes operature boxes ole to superviso | ment 1 completed correctly for 0.0, 0.5 a correctly completed ascending (1 rs (1) | nd 1.0 min (1)) | [3] |
| | (b) | table initia other comp | of r l and r ten para | esults for experi I final temperatu perature boxes ple to supervisor | ment 2 ire boxes completed correctly for correctly completed ascending (1 rs (1) | 0.0, 0.5 and 1.0 mi) | n (1) [3] |
| | (c) | all po best label | oints fit si s (1) | correctly plotted nooth line graph | d (3), –1 for any incorrect ns (1) | | [5] |
| | (d) | valu | e fro | m graph (1) unit | t (1) shown clearly (1) | | [3] |
| | (e) | exoth | nerm | ic / redox / displ | lacement (1) | | [1] |
| | (f) | (i) t | temp | erature rises gro | eater / faster in experiment 1 or c | onverse (1) | |
| | | (ii) 2 | zinc | is more reactive | . (1) | | [2] |
| | (g) | temp less | erat solu | ure changes wo ion (1) | uld be larger / faster / owtte (1) | | [2] |
| | (h) | solid would react slower / temperature rises would be slower (1) smaller / less surface area (1) | | | | [2] | |
| | | | | | | | [Total: 21] |
| 2 | (a) | (i) | P Q R all co | colourless no colourless no colourless sm olours correct (1 ect smells (1) | smell smell ells acidic/vinegar) | | [2] |
| | | (ii) (| P Q R all co pH v | red pH 1–3 green pH 6–7 brange pH 4–5 blours correct (1 alues correct or |) der (1) | | [2] |
| | (b) | Ρf | fizze | s / effervescenc | e (1) | | |
| | (~) | | light | ed splint (1) po | ps (1) | | [3] |
| | | R f | fizze | s (1) | | | [2] |

| Page 3 | Mark Scheme: Teachers' version | Syllabus | Paper |
|--------------------------|--|----------|-------------|
| | IGCSE – October/November 2011 | 0620 | 51 |
| (c) P e Q r R f | effervescence / fizz / bubbles (1) no reaction (1) izzes (1) | | [3] |
| (d) blue white | colour (1) precipitate (1) | | [1] [1] |
| (e) 98–1 | 02 (1) | | [1] |
| (f) sulfu | ric (1) acid (1) | | [2] |
| (g) wate | r (1) | | [1] |
| (h) orgai | nic / weak / ethanoic / acid (1) | | [1] |
| | | | [Total: 19] |