MARK SCHEME for the October/November 2014 series

0620 CHEMISTRY

0620/53

Paper 5 (Practical), maximum raw mark 40

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|------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
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| 1 ((| d) | table of results initial temperature boxes completed correctly (1) final temperature boxes correctly completed (1) differences correct (1) include minus signs comparable to supervisors (1) | | [4] |
| (4 | e) | bubbles / fizzing / effervescence (1) blue precipitate (1) | | [2] |
| (1 | f) | all bars at correct levels (2), suitable scale (1) labels (1) | | [4] |
| (| g) | (i) experiment 2 (1) | | [1] |
| | | (ii) experiments 2 and 3 (1) temperature decreased (1) | | [2] |
| (| h) | (i) half temperature change / half value in table (1) | | [1] |
| | | ii) half temperature change / half value in table (1) | | [1] |
| | (| iii) half amount of solid used (1) | | [1] |
| (i | i) | room temperature / value from table (1) finished dissolving / reacting (1) | | [2] |
| (i | j) | carbonate (1) carbon dioxide (1) acid (1) Cu ²⁺ (1) | | max [2] |

| P | age 3 | | Syllabus | Paper | | |
|---|---------------------|--------------------------------------------------------------------------------|----------|------------|--|--|
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| 2 | tests on solution M | | | | | |
| | | colourless see test (e) ignore clear pH 1–3 (1) | | [1] | | |
| | (b) | bubbles (1) lighted splint goes out (1) | | [2] | | |
| | | fizz / bubbles etc. (1) lighted splint (1) pops (1) | | [3] | | |
| | (d) | white (1) precipitate (1) | | [2] | | |
| | | appearance colourless (1) must have (a) correct as well pH 11–14 (1) | | [1] [1] | | |
| | | colourless / no change (1) with excess white (1) precipitate (1) | | [3] | | |
| | | litmus paper turns blue (1) pungent smell (1) do not allow: strong | | [2] | | |
| | (h) | (i) hydrogen (1) | | [1] | | |
| | | (ii) ammonia (1) | | [1] | | |
| | | hydrochloric acid (2) note: acid / chloride only (1) | | [2] | | |
| | (j) | (sodium / potassium) hydroxide (1) | | [1] | | |