CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 series

0620 CHEMISTRY

0620/51 Paper 5 (Practical), maximum raw mark 40

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Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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	IGCSE – October/November 2012	0620	51

1 **(e)** Table of results for Experiments

all initial temperature boxes completed correctly as instructed (1)

all final temperature boxes completed correctly not more than 20 °C below original (1)

all average temperatures completed correctly (1)

times completed in seconds (1) **ignore:** dps

descending in order (comparable to supervisor) (1) [5]

(f) points plotted correctly (4)

smooth line graph (1) [5]

(g) average temperature 72 °C (1)

value from graph (1)

extrapolation shown on grid (1) [3]

(h) as an indicator/check presence of iodine owtte (1) [1]

(i) **(i)** experiment 5/when temperature is 70 (1) [1]

(ii) highest temperature (1)

particles have more energy/more collisions (1) [2]

(j) time longer/more/increase (1)

speed slower/decrease (1) [2]

(k) more accurate (1) [1]

2 **(a)** pH 5–7 (1) ignore colours [1]

(b) **(i)** white (1) precipitate (1) dissolves owtte (1) [3]

(ii) white (1) precipitate (1) dissolves owttte (1) [3]

(c) no reaction/no change/no precipitate/no observation (1) [1]

(d) white (1) precipitate (1) [2]

(e) litmus turns red (1) then bleached/white (1) [2]

(f) bubbles/fizz etc. (1)

glowing splint (1) glows brighter/relights (1) [3]

(g) zinc (1) sulfate (1) [2]

(h) oxygen (1) [1]

(i) transition metal present (1) catalyst (1)

manganese/copper (1) oxide (1) max 2 [2]

[Total: 40]