

CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the March 2015 series

0620 CHEMISTRY

0620/52

Paper 5 (Practical), maximum raw mark 40

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1 (d) Table of results

total volume of water boxes completed correctly (1),

10, 12, 14, 18

temperature boxes completed (1)

values decreasing (1)

comparable to supervisor's results (2) ±10 °C

[5]

(e) appropriate scale for y axis (1)

note: must use at least 4 large squares vertically to plot points

all points correctly plotted (3),

all 4 correct (3)

3 correct (2)

2 correct (1)

1 or fewer correct (0)

note: origin should not be included

smooth line graph (1)

[5]

(f) value from graph for $20 \, \text{cm}^3$ water (1) \pm half a small square

shown clearly by extrapolation(1)

[2]

(g) clear/colourless liquid forms/no solid/crystals/salt visible owtte (1)

[1]

(h) salt would not all dissolve (1)

use of figures (1)

e.g. only 5.7 g would dissolve in 10 cm³ water at 100 °C

[2]

(i) sketch graph above line (1)

label (1)

[2]

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rage	Cambridge IGCSE – March 2015	062 W
(j)	any one improvement from: (1)	Can
	do not remove thermometer from solution use IT method/second person to note formation of crystals repeat do separate experiments use smaller volumes of water loss of water through boiling/evaporation	Syl A. P. per O62 O62 OAR CAMBONING
	linked explanation (1)	
	loss of solid on thermometer observing formation of first crystals may vary average more results to plot on graph method of avoiding evaporation	[2]
2 test	s on solution E	
(a)	yellow/green/colourless,	[1]
(b)	white (1) precipitate (1)	[2]
(c)	green precipitate (1) indicator paper turns blue (1)	[1]
	pungent smell (1)	[2]
	turns brown (1)	[1]
(d)	appearance pink to colourless/pale yellow (1)	[1]
	brown (1) precipitate (1)	[2]
	tests on solution F	
(e)	(i) yellow solution (1)	[1]
	(ii) pH 1–3 (1)	[1]
(f)	any three from: green (1) blue(1) lavender/purple/lilac (1)	
	effervescence (1)	[3]

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(g) i	ron (1) (II) (1)	Calmb
8	ammonium (1) sulfate(1)	Tage
	any two from: ransition metal (1)	COM

different valencies (1)

acidic solution(1)

[2]