## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2011 question paper for the guidance of teachers

## **0620 CHEMISTRY**

0620/51

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.

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(a) Table of results for Experiment 1 initial and final volumes and differences completed correctly (1) to 1 decimal place (1) comparable to Supervisor's report (1) ±4 cm<sup>3</sup> [3] (b) Table of results for Experiment 2 initial and final volumes and differences completed correctly (1) to 1 decimal place (1) comparable to Supervisor's report (1) ±4 cm<sup>3</sup> [3] (c) bubbles/fizz/effervescence (1) glowing splint (1) relights/brighter (1) ignore reference to black [3] (d) oxygen/ $O_2$  (1) [1] (e) (i) colourless not clear to pink/purple (1) or reverse [1] (ii) potassium manganate is coloured/is an indicator/owtte (1) [1] allow not an acid/alkali reaction **(f) (i)** experiment 1 (1) [1] (ii) experiment 1 two times the volume of experiment 2 [1] (iii) solution B/potassium manganate more concentrated/stronger (1) or converse two times (1) two times as concentrated = 2 [2] (g) half the value of the result for experiment 2 (1) cm<sup>3</sup> (1) half the volume of C used (1) [3] easy to use/quick/convenient/fairly accurate (1) (h) advantage disadvantage not accurate owtte (1) [2]

Page 3			Syllabus	Paper
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2	(a) (i)	colourless (1) smell (1)		[2]
	(ii)	colourless/pale yellow <b>and</b> <u>no</u> smell (1)		[1]
	(b) (i)	catches fire/ignites (1) yellow/blue (1)		
		yellow flame = 2		[2]
	(ii)	extinguished/no reaction/owtte (1)		[1]
	(c) (i)	yellow/brown/orange/red (1) solution/dissolves (1) <b>not</b> ppt.		[2]
	(ii)	yellow/brown/orange (1)		[1]
	(iii)	two layers/rings (1) pink/purple top layer (1)		[2]
	(d) (i)	no reaction/no change/remains clear/stays same (1)		[1]
	(ii)	yellow (1) precipitate (1)		[2]
		wn/yellow/cream/white (1)		
	pre	cipitate (1)		[2]
	<b>(f)</b> orga	anic (1) alcohol/named alcohol/fuel (1) allow flammable		[2]
	(g) iodi	ide/I <sup>-</sup> (1) <b>not</b> iodine		[1]
			[	Γotal: 40]