## **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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<ul> <li>(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></li> </ul>	[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 cm³					
(c) bubbles/fizz/effervescence (1) glowing splint (1) relights/brighter (1) ignore reference to black					
(d) oxygen/O <sub>2</sub> (1)	[1]				
(e) (i) colourless not clear to pink/purple (1) or reverse	[1]				
<ul><li>(ii) potassium manganate is coloured/is an indicator/owtte (1)</li><li>allow not an acid/alkali reaction</li></ul>	[1]				
(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) <b>or</b> 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)					
(h) advantage easy to use/quick/convenient/ <u>fairly</u> accurate (1) not accurate owtte (1)	[2]				

[Total: 40]

	Pag	ge 3			Syllabus	Paper
				IGCSE – May/June 2011	0620	51
2	(a)	(i)	colo	urless (1) smell (1)		[2]
		(ii)	colo	urless/pale yellow <b>and</b> <u>no</u> smell (1)		[1]
	(b)	(i)	yello	hes fire/ignites (1) pw/blue (1) pw flame = 2		[2]
		(ii)	•	nguished/no reaction/owtte (1)		[1]
	(c)	(i)	yello	w/brown/orange/red (1) solution/dissolves (1) <b>not</b> ppt.		[2]
		(ii)	yello	w/brown/orange (1)		[1]
	(	(iii)	two l	layers/rings (1) pink/purple top layer (1)		[2]
	(d)	(i)	no re	eaction/no change/remains clear/stays same (1)		[1]
		(ii)	yello	w (1) precipitate (1)		[2]
	(e)		wn/ye cipitat		[2]	
	(f)	orga	anic (	1) alcohol/named alcohol/fuel (1) <b>allow</b> flammable		[2]
	(g)	iodi	de/I <sup>-</sup>	(1) <b>not</b> iodine		[1]