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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

## 0653 COMBINED SCIENCE

0653/51

Paper 5 (Practical Test), maximum raw mark 30

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Page 2			Mark Scheme: Teachers' version	Syllabus	0
<u> </u>	y <u>e 2</u>		IGCSE – October/November 2010	0653	Sp.
(a)	(i)	<b>A</b> , <b>B</b>	ered in Table 1.1 B, <b>D</b> blue ; E purple ;		O ADAC AMBRIDGE
	(ii)	<b>C</b> ar	nd E;		[1]
(b)	(i)	<b>B</b> , b	ered in Table 1.1 lue / black ; ) brown / yellow / orange ;		[2]
	(ii)	solu	tion <b>B</b> ;		[1]
(c)	(i)	<b>A</b> , b	ered in Table 1.1 lue ; ed / orange ;		[1]
	(ii)		ution) <b>D</b> ;		[1]
(d)		with	protein solutions to starch solution ; Benedict's solution amylase produces a positive	e result for reducin	g [2] <b>[Total: 10]</b>
(a)	sen: curr	ent is	2.1 readings for current (less than 1 A) and voltage; s about half when both lamps connected; s about the same (+/– 10 %);		[3]
(b)	prod	duct o	of p.d. and current is correct for figures ;		[1]
(c)	the	resul	nt fits results; Its confirm the original statement; nark if candidate fails to recognise correct answer)		[2]
(d)			s greater than when 1 lamp used ; rect in either table ;		[2]
(e)	the	resul	nt fits results ; Its confirm the original statement ; mark if results 'do not fit' and the correct reasoning i	is also given).	[2]

[Total: 10]

1

2

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3 (a) solid turns white;

then brown (black acceptable);

white smoke;

(allow reference to sulfur dioxide/sublimation in lieu of marks allocated to change of solid)

(b) litmus blue;

ammonia; [2]

(c) (i) green; [1]

(ii) white ppt.; [1]

(e) iron(II); ammonium; sulfate; (one mark for each) [3]

[Total: 10]