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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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2			Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – October/November 2010	0653	51		
(a)	` '	A , B	ered in Table 1.1 B, D blue ; E purple ;		[2]		
	(ii)	C an	nd E;		[1]		
(b)	(i)		ered in Table 1.1 lue / black ;				
			brown / yellow / orange ;		[2]		
	(ii)	solut	tion B ;		[1]		
(c)	` '	ente	ered in Table 1.1				
			ed / orange ;		[1]		
	(ii)	(solu	ution) D ;		[1]		
(d)	add	hoth	protein solutions to starch solution ;				
(4)	test	test with Benedict's solution amylase produces a positive result for reducing sugar; [2]					
					[Total: 10]		
(a)	in Ta		2.1 readings for current (less than 1 A) and voltage;				
	curr	ent is	s about half when both lamps connected; s about the same (+/– 10%);		[3]		
	VOIL	<i>a</i> go	a about the barne (17 10 70);		[0]		
(b)	proc	duct c	of p.d. and current is correct for figures ;		[1]		
(c)	state	emen	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	result	nt fits results ; Its confirm the original statement ;				
	(allo	w 1 r	mark if results 'do not fit' and the correct reasoning is	s also given).	[2]		
					[Total: 10]		

1

2

	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – October/November 2010	0653	51
3	(a) solid turr			

then brown (black acceptable);

white smoke;

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

[3]

[2]

(b) litmus blue;

ammonia ;

(c) (i) green; [1]

(ii) white ppt.; [1]

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

[Total: 10]