UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0654 CO-ORDINATED SCIENCE

0654/51

Paper 5 (Practical), maximum raw mark 45

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 Syllabus
•	IGCSE – October/November 2010	0654
Α,	tered in Fig. 1.1 B, D blue ; E purple	Syllabus 0654 Independent Inde
(ii) Ca	and E ;	[1
В,	tered in Table 1.1 blue / black ; D brown ;	[2
(ii) sol	lution B ;	[1
А,	tered in Table 1.1 blue ; red ;	[1
(ii) sol	lution D ;	[1
	t starch in two test-tubes and add some of each prote at both solutions with Benedict's reagent ;	ein solution ;
	sitive result with amylase solution ;	[3
	d colour with solution C ; gative (blue) colour with solution E / no reaction ;	[2
sa	y two suitable, e.g. me amount of each test solution / Benedict's solution me reaction time for each tube ;	;
	me temperature ;	[max 2]
		[Total: 15]

Page 3	Mark Scheme: Teachers' version	Syllabus
	IGCSE – October/November 2010	0654 23
	2.1 nits for current and voltage and power ; readings for current and voltage ; (less than 1 A)	Syllabus 0654 7054 700 710 721
	ent is about half when both lamps connected ; ige is about the same ;	[2]
(ii) prod	uct of p.d. and current is correct for figures ;	[1]
(c) statemer the result	nt fits results ; ts confirm the original statement ;	[2]
	ram is correct with 2 lamps in parallel with voltmeter ; plete circuit with ammeter in correct place ;	[2]
(ii) reas	onable table drawn ;	[1]
	ent is greater that 1 lamp used ; ige is about the same within 10 % ;	[2]
(ii) prod	uct is correct ;	[1]
	it fits results ; ts confirm the original statement ;	[2]
		[-]

	e 4	Mark Scheme: Teachers' version	Syllabus Syllabus	N.
		IGCSE – October/November 2010	0654	3
a s tł li (;	solid tu hen b white s itmus (allow	blue ; nia ; (max 2) urns white / grey ; rown (black acceptable) ; smoke ; red ; (max 3) reference to sulfur dioxide or trioxide / sublimation in lie nge of solid)	Syllabus 0654 eu of marks allocated	(max 5)
(b) lii a	itmus ammo			[2]
(c) (i	(i) wl	hite precipitate ;		[1]
(i	ii) ad	ccept precipitate so long as it is not white ;		[1]
	(i) an	een;		[2]
(d) (i		own or similar ;		
	br	own or similar ; ue precipitate or dark blue solution ;		[1]
(i	br ii) bl			[1] [3]