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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

0654 CO-ORDINATED SCIENCE

0654/51

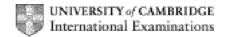
Paper 5 (Practical), maximum raw mark 45

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Page 2				Syllabus	Paper	
		IGCSE -	- October/November	2010	0654	51
(a) (i)	A, B	red in Fig. 1.1 , D blue ; purple				[2]
(ii)	C ar	nd E;				[1]
(b) (i)		red in Table 1.1				
	-	lue / black ; brown ;				[2]
(ii)	solu	tion B ;				[1]
(c) (i)	ente A , bl D re					[1]
(ii)	solu	tion D ;				[1]
(d) (i)	test	both solutions w	tubes and add some ith Benedict's reagen	•	in solution ;	
	posi	tive result with a	mylase solution ;			[3]
(ii)		colour with soluti ative (blue) colou	on C ; ur with solution E / no	reaction ;		[2]
(iii)	sam sam	e reaction time f	h test solution/Bened	dict's solution	;	[may 0]
	Saill	e temperature ;				[max 2]

[Total: 15]

1

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1000= 000000000000000000000000000000000		IGCSE – October/November 2010	0654	51

2 (a) in Table 2.1

correct units for current and voltage and power; sensible readings for current and voltage; (less than 1 A)

[2]

(b) (i) current is about half when both lamps connected; voltage is about the same;

[2]

(ii) product of p.d. and current is correct for figures;

[1]

(c) statement fits results;

the results confirm the original statement;

[2]

(d) (i) diagram is correct with 2 lamps in parallel with voltmeter; complete circuit with ammeter in correct place;

[2]

(ii) reasonable table drawn;

[1]

(e) (i) current is greater that 1 lamp used; voltage is about the same within 10%;

[2]

(ii) product is correct;

[1]

(f) statement fits results;

the results confirm the original statement;

[2]

[Total: 15]

Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2010	0654	51
3 (a) litmus	blue:		

ammonia; (max 2) solid turns white/grey;

then brown (black acceptable);

white smoke;

litmus red; (max 3)

[max 5]

(allow reference to sulfur dioxide or trioxide/sublimation in lieu of marks allocated

to change of solid)

(b) litmus blue;

[2] ammonia;

[1] (c) (i) white precipitate;

(ii) accept precipitate so long as it is not white; [1]

(d) (i) green;

brown or similar; [2]

(ii) blue precipitate or dark blue solution; [1]

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

[Total: 15]